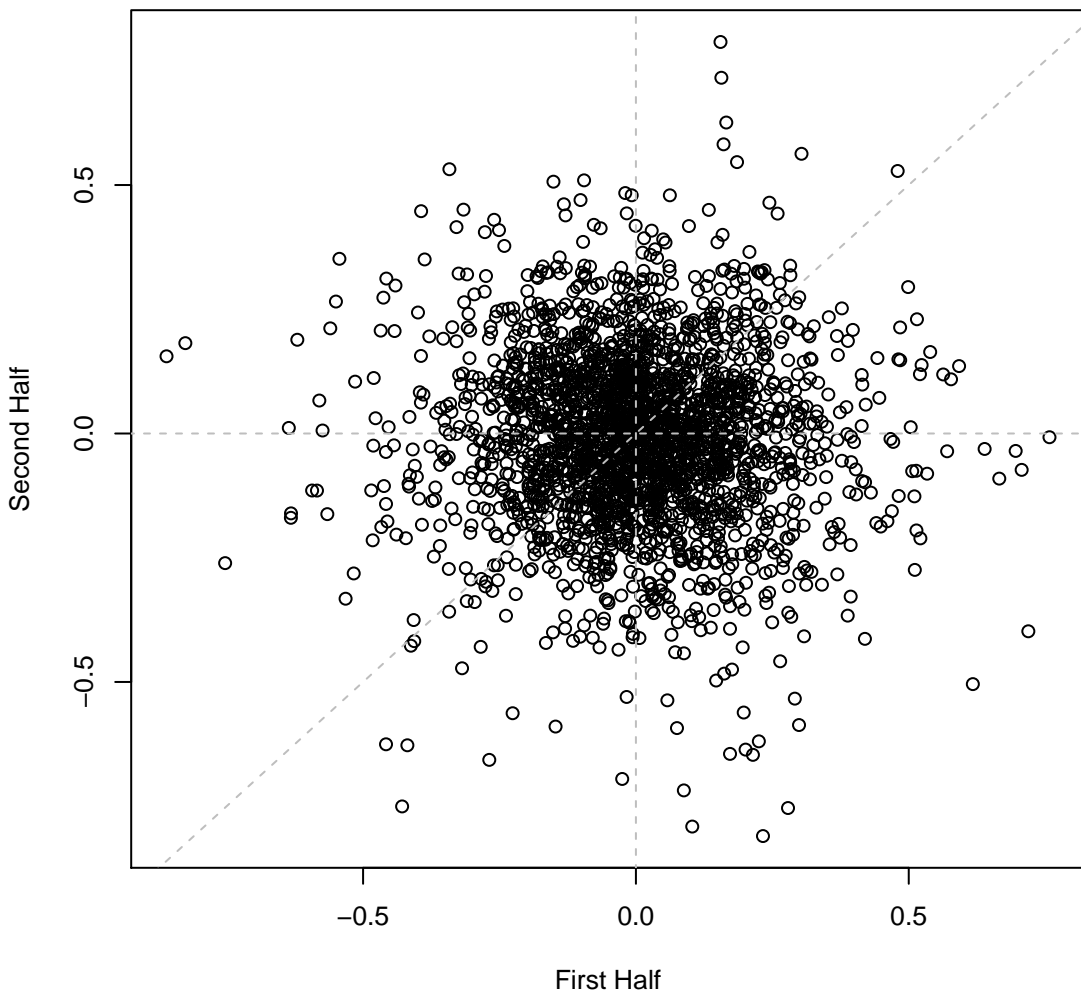
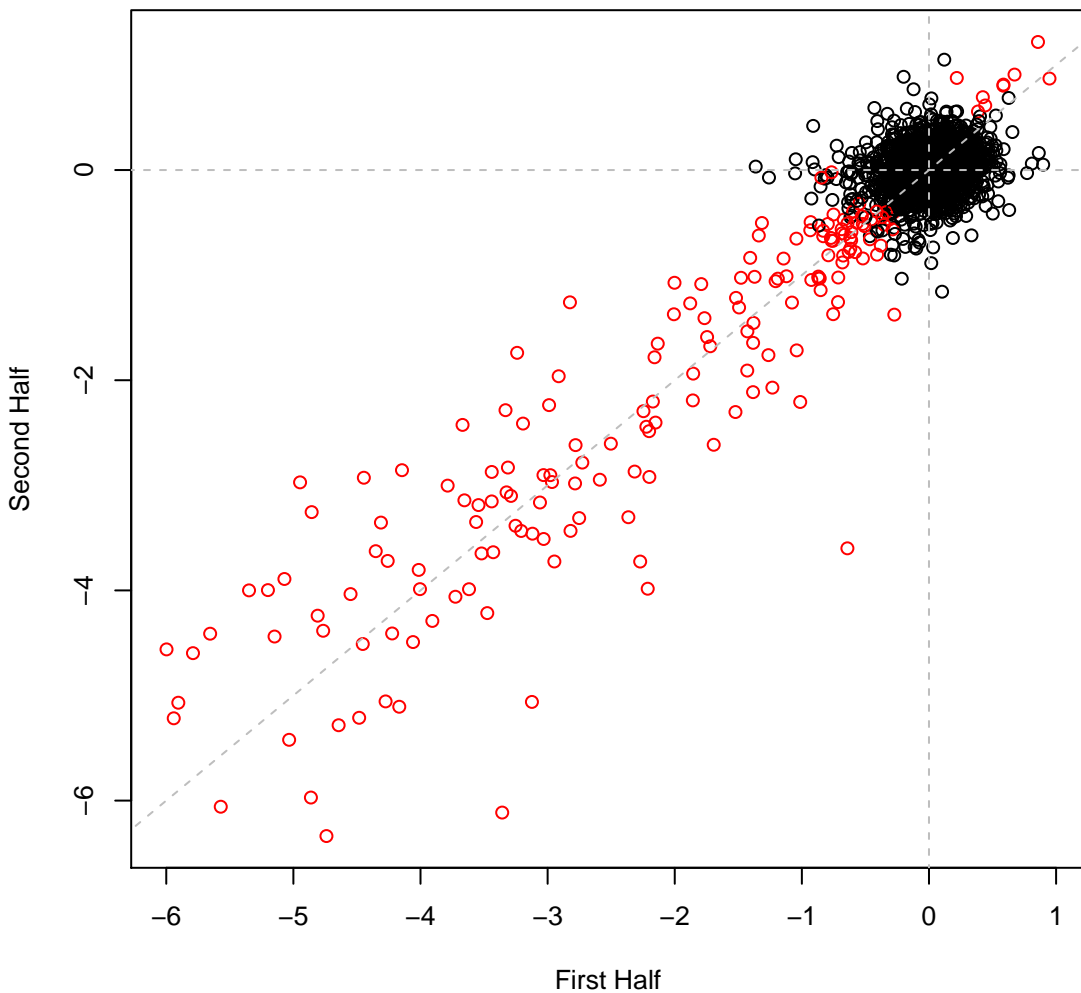


Keio set1IT002 #2 (gMed=227 rho12=-0.029)

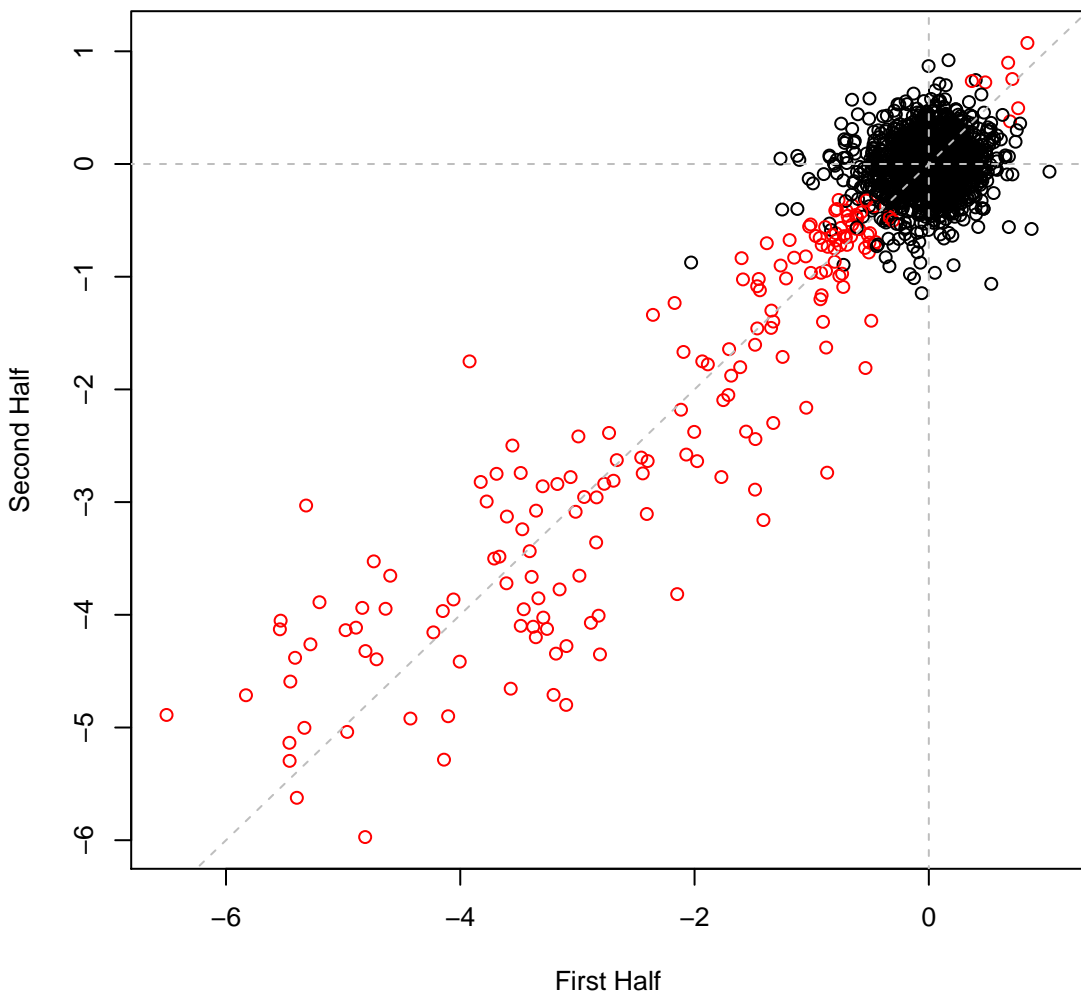
Time0



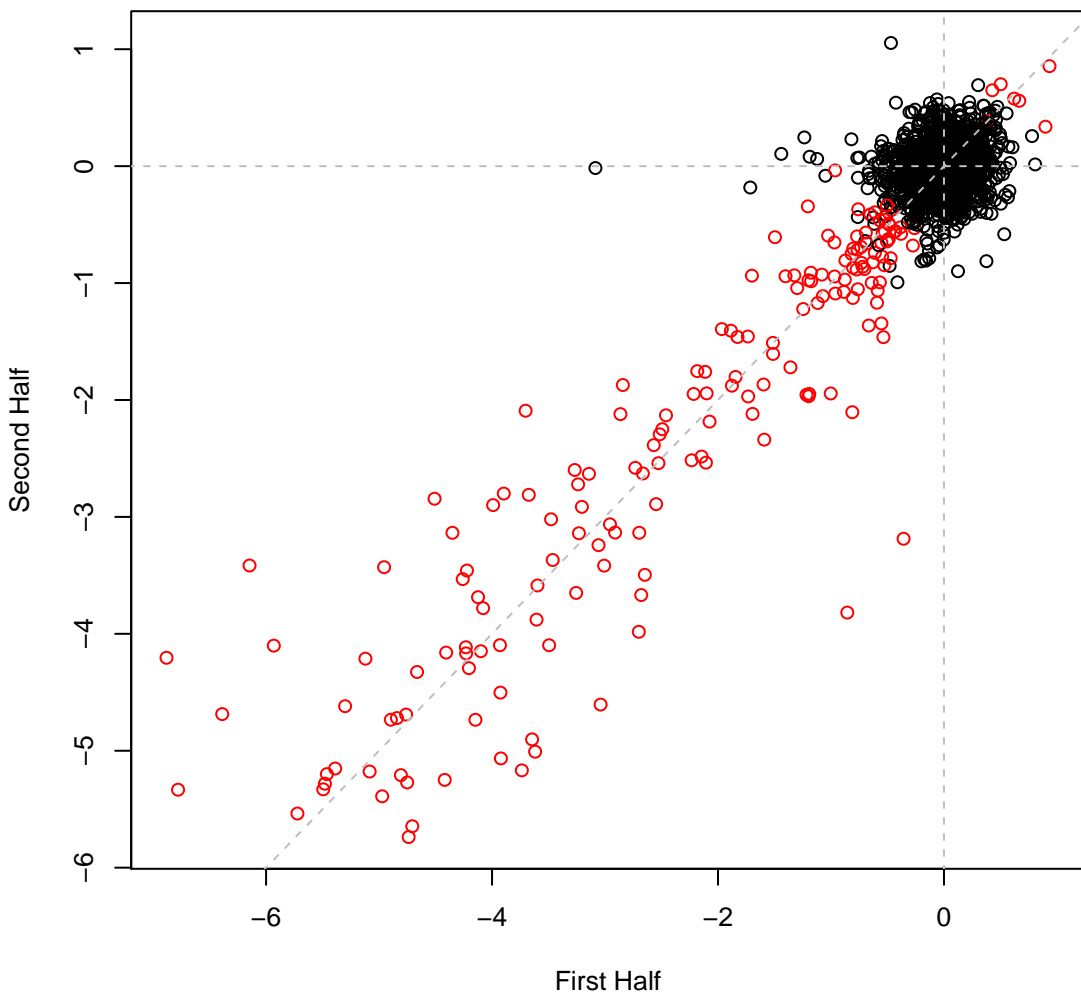
**Keio set1IT003 #3 (gMed=217 rho12=0.316)**  
**D-Glucose (C)**



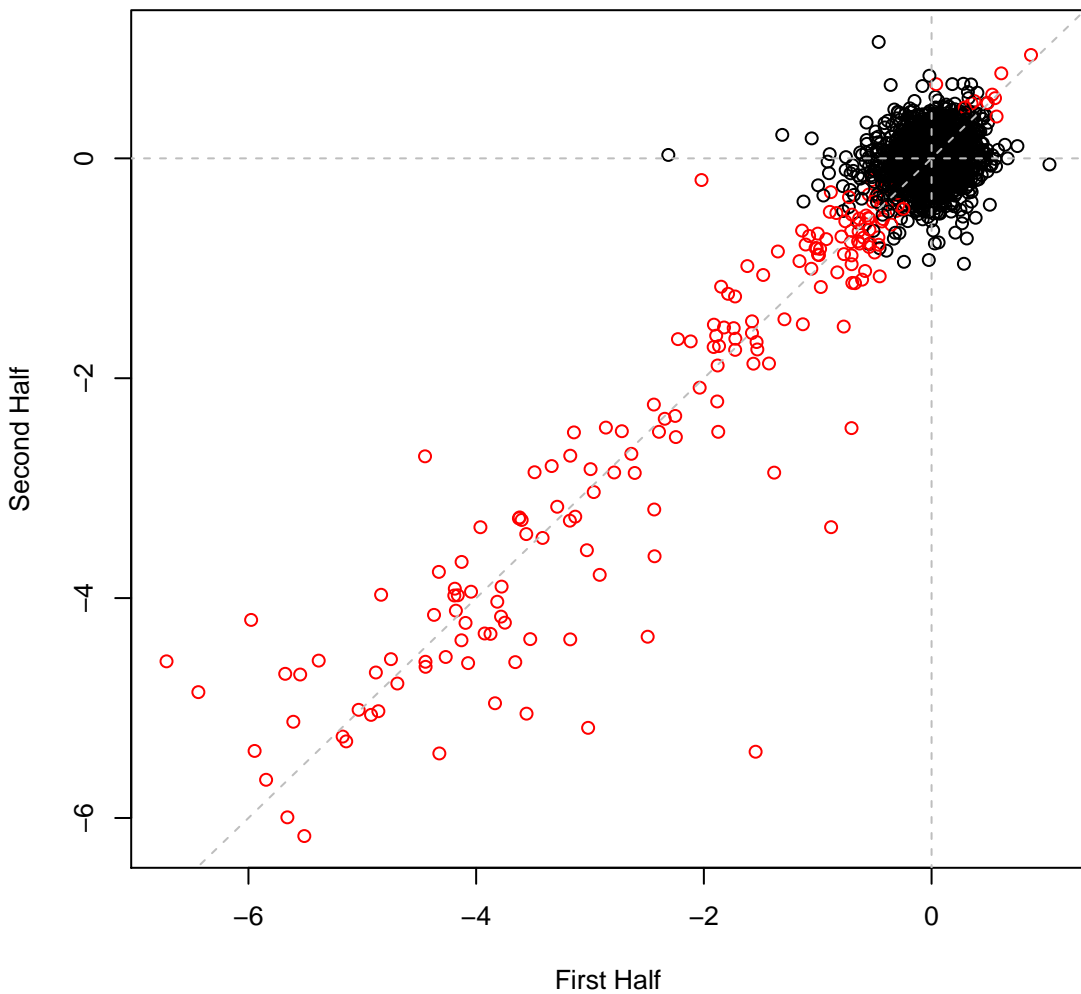
**Keio set1IT004 #4 (gMed=203 rho12=0.282)**  
**D-Glucose (C)**



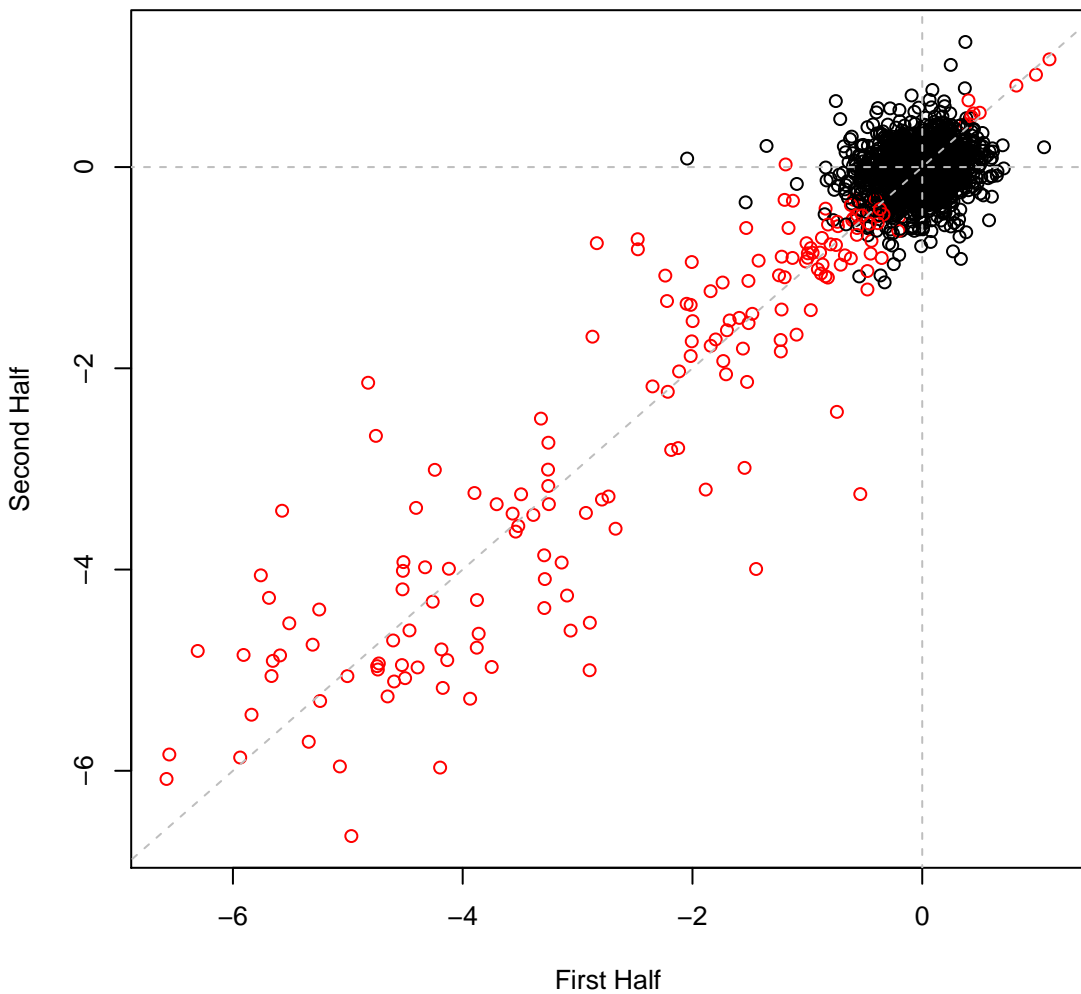
**Keio set1IT005 #5 (gMed=234 rho12=0.323)**  
**D-Fructose (C)**



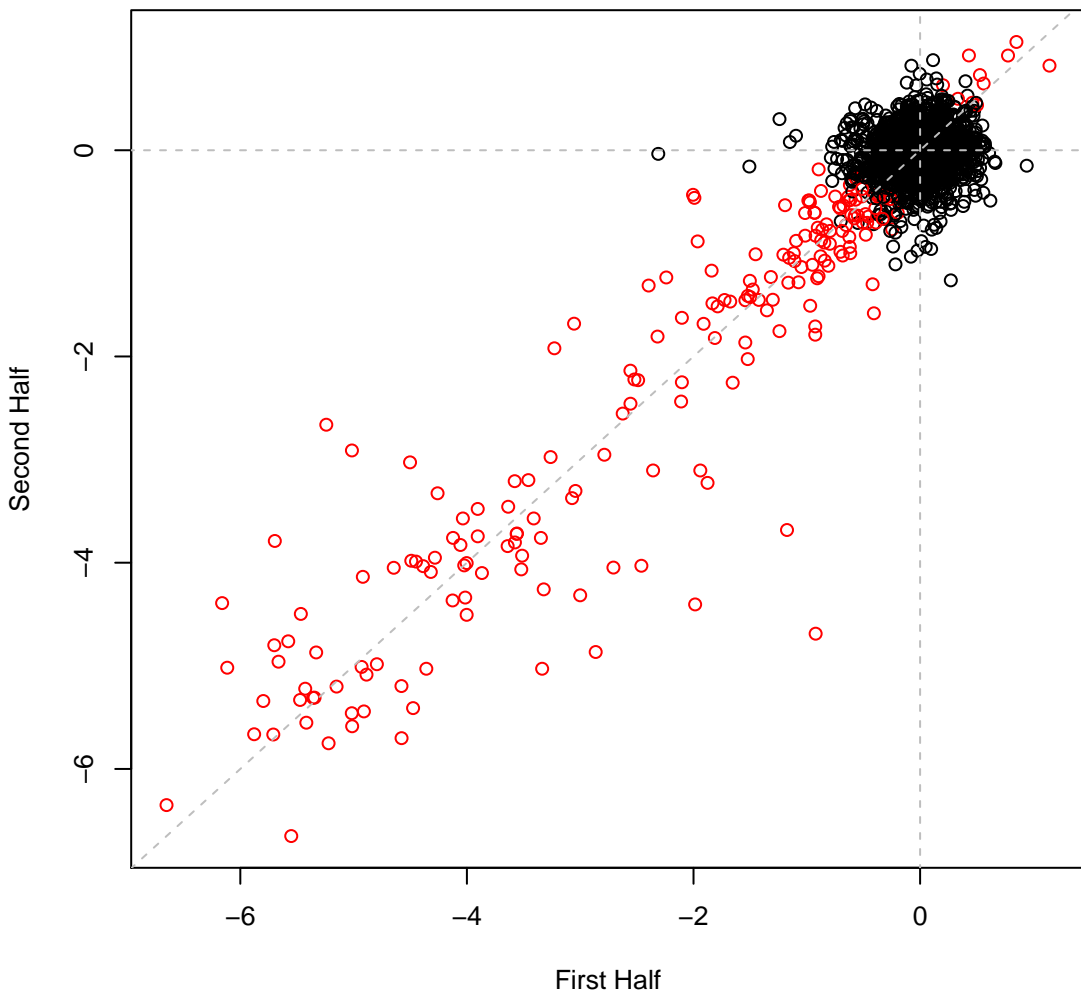
**Keio set1IT006 #6 (gMed=250 rho12=0.325)**  
**D-Fructose (C)**



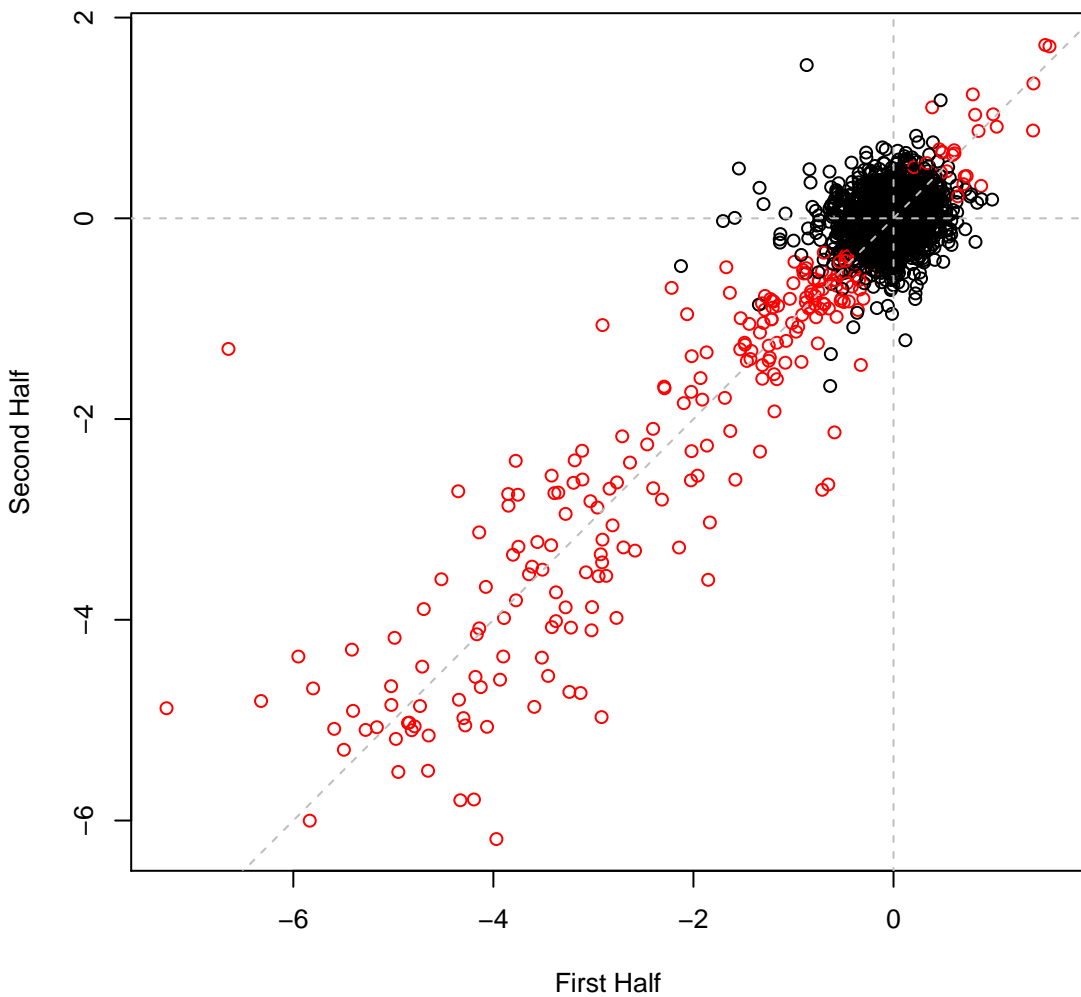
**Keio set1IT007 #7 (gMed=222 rho12=0.309)**  
**Sucrose (C)**



**Keio set1IT008 #8 (gMed=240 rho12=0.311)**  
**Sucrose (C)**

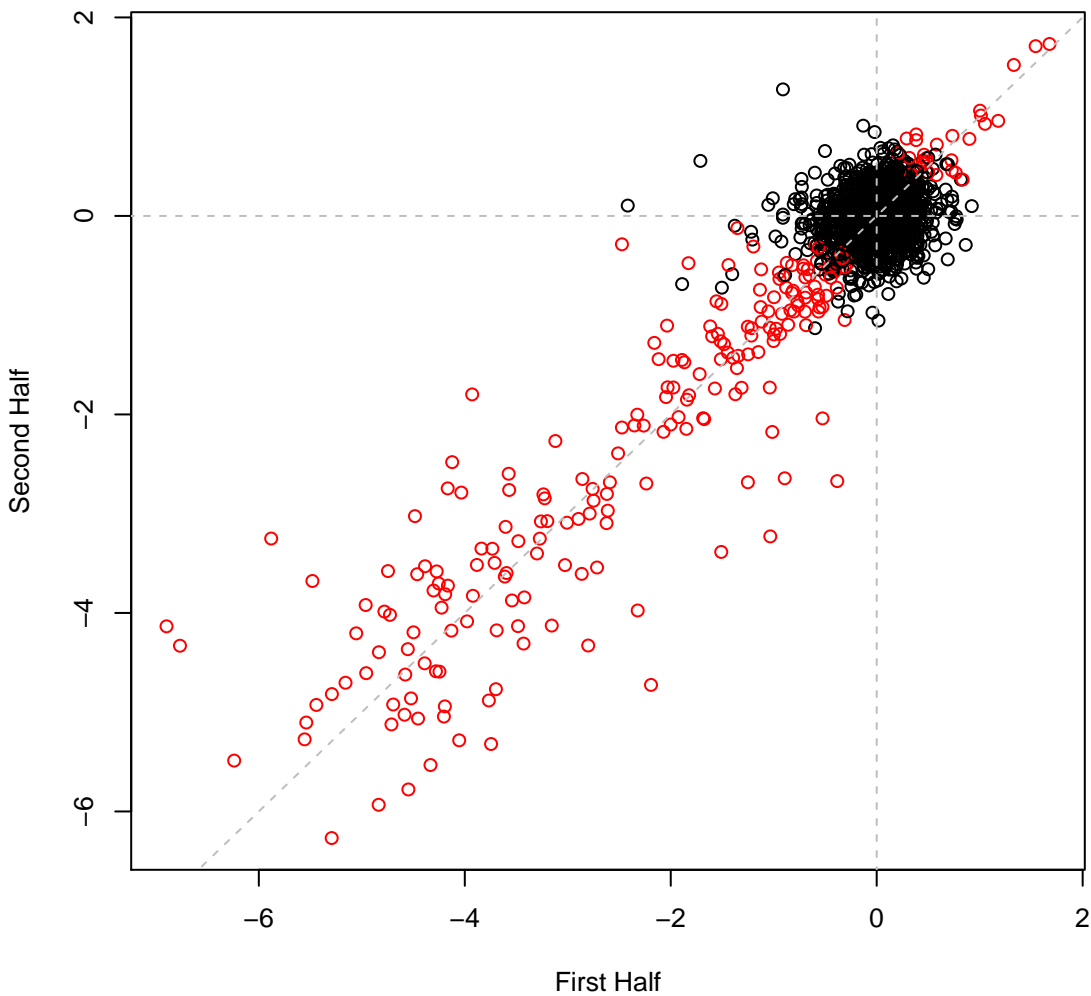


**Keio set1IT009 #9 (gMed=206 rho12=0.391)**  
**D-Maltose (C)**

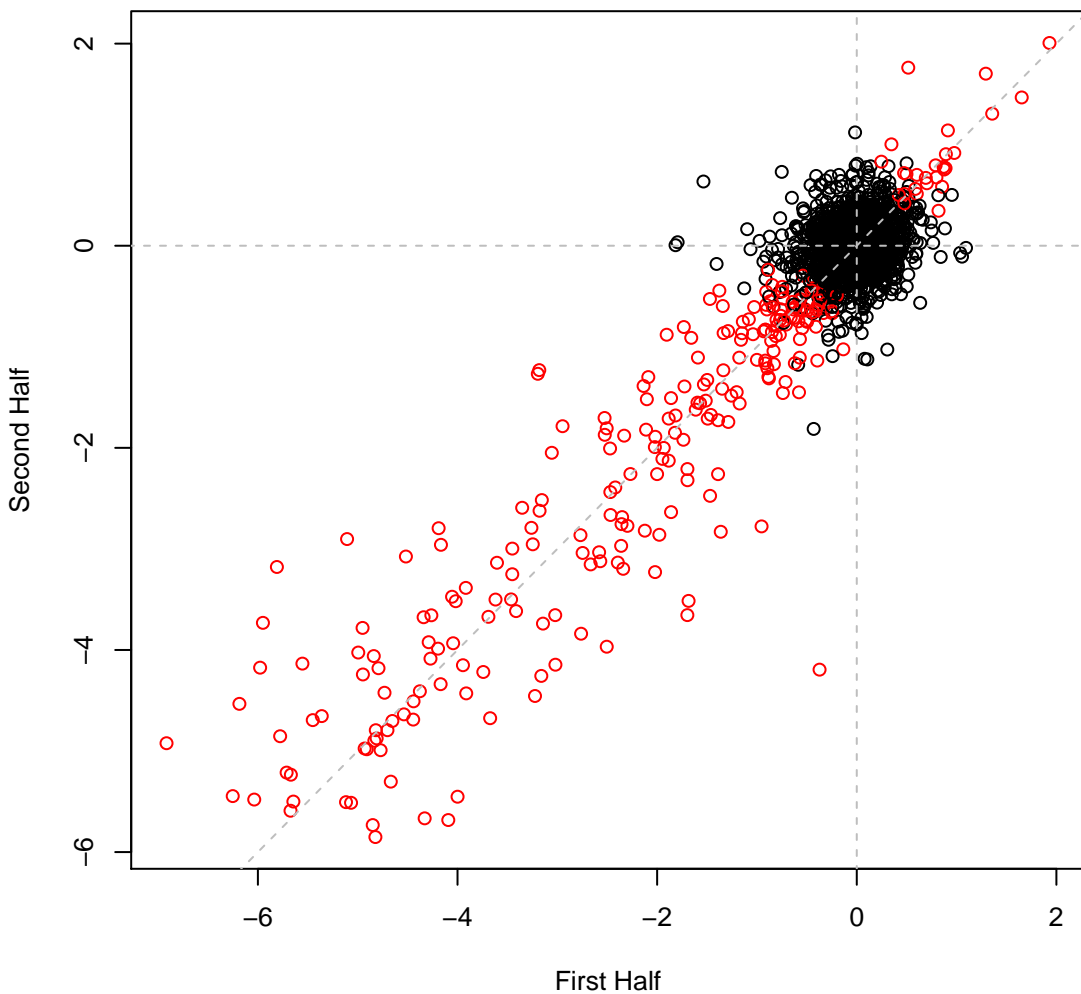




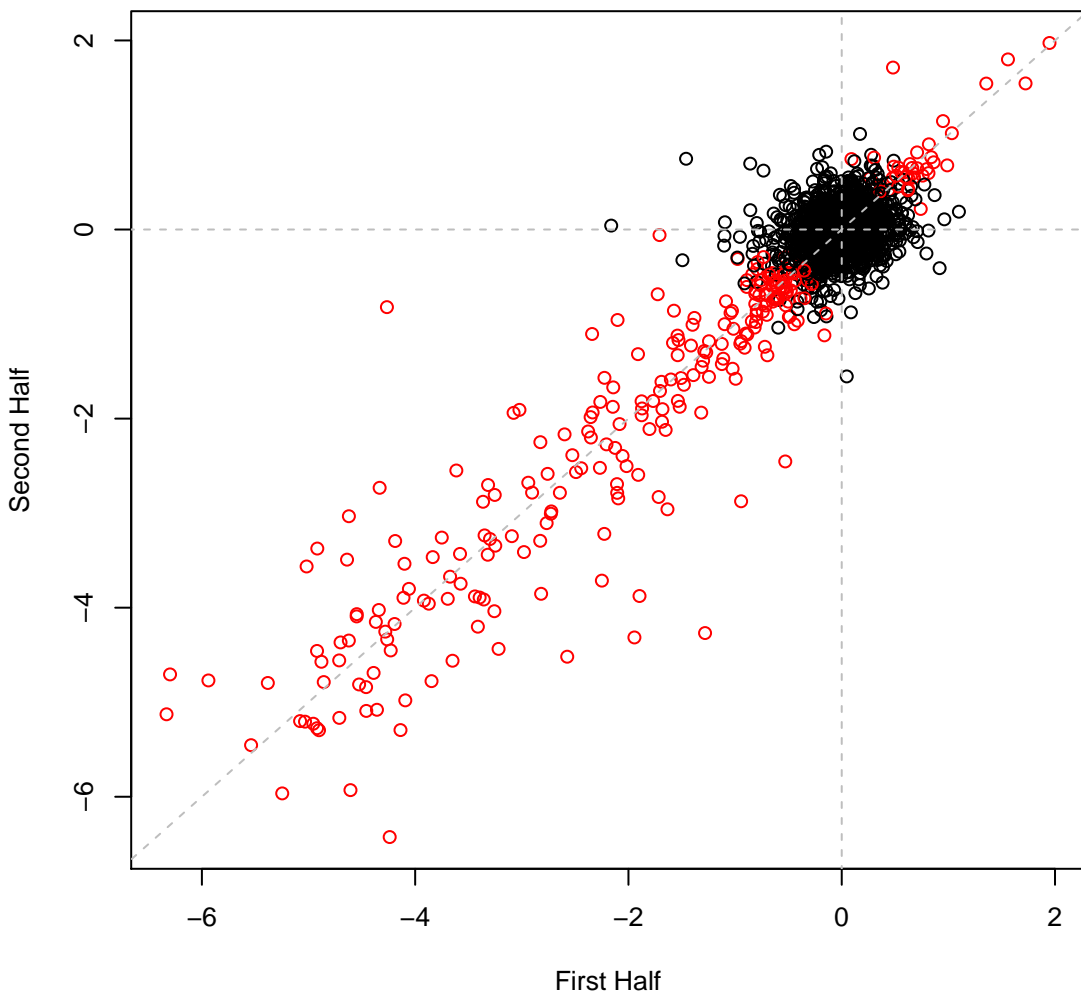
**Keio set1IT010 #10 (gMed=188 rho12=0.381)**  
**D-Maltose (C)**



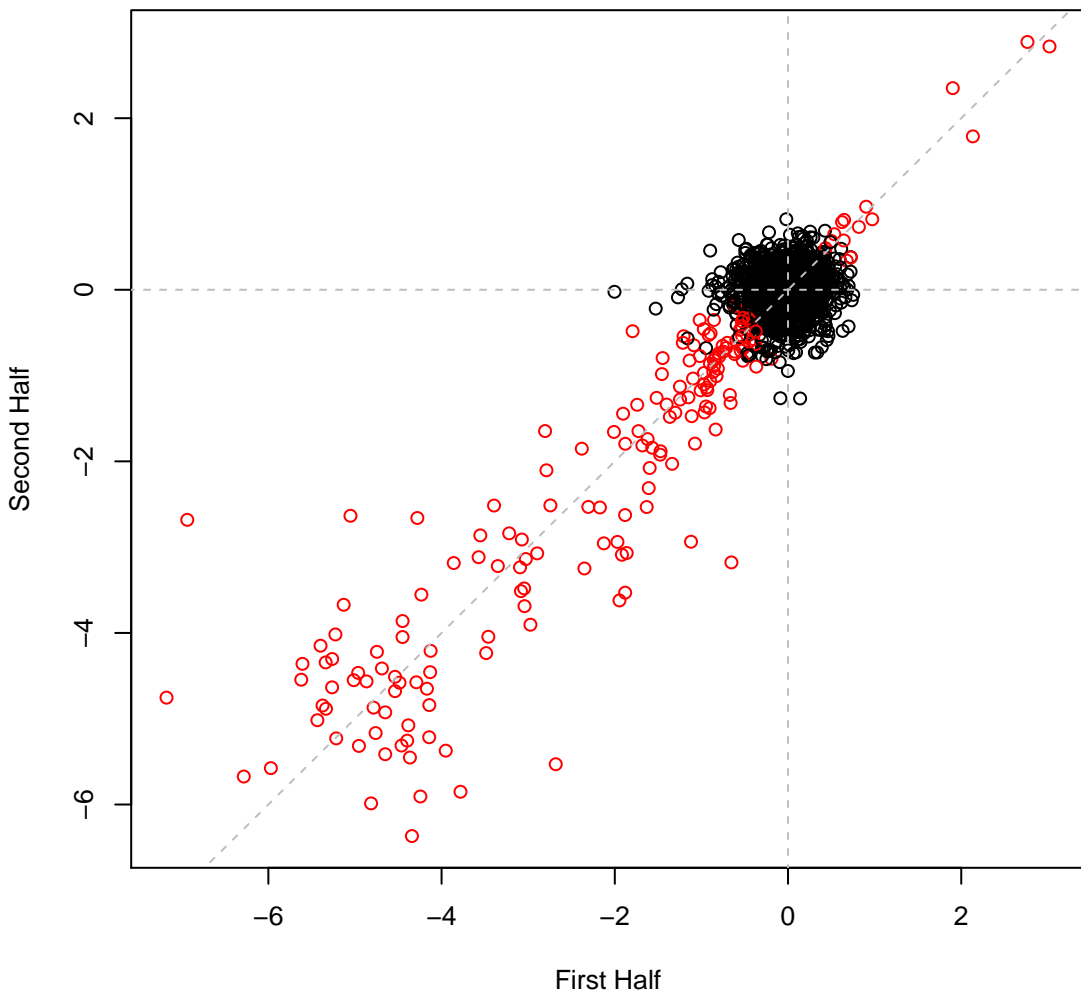
**Keio set1IT011 #11 (gMed=186 rho12=0.406)**  
**D-Xylose (C)**



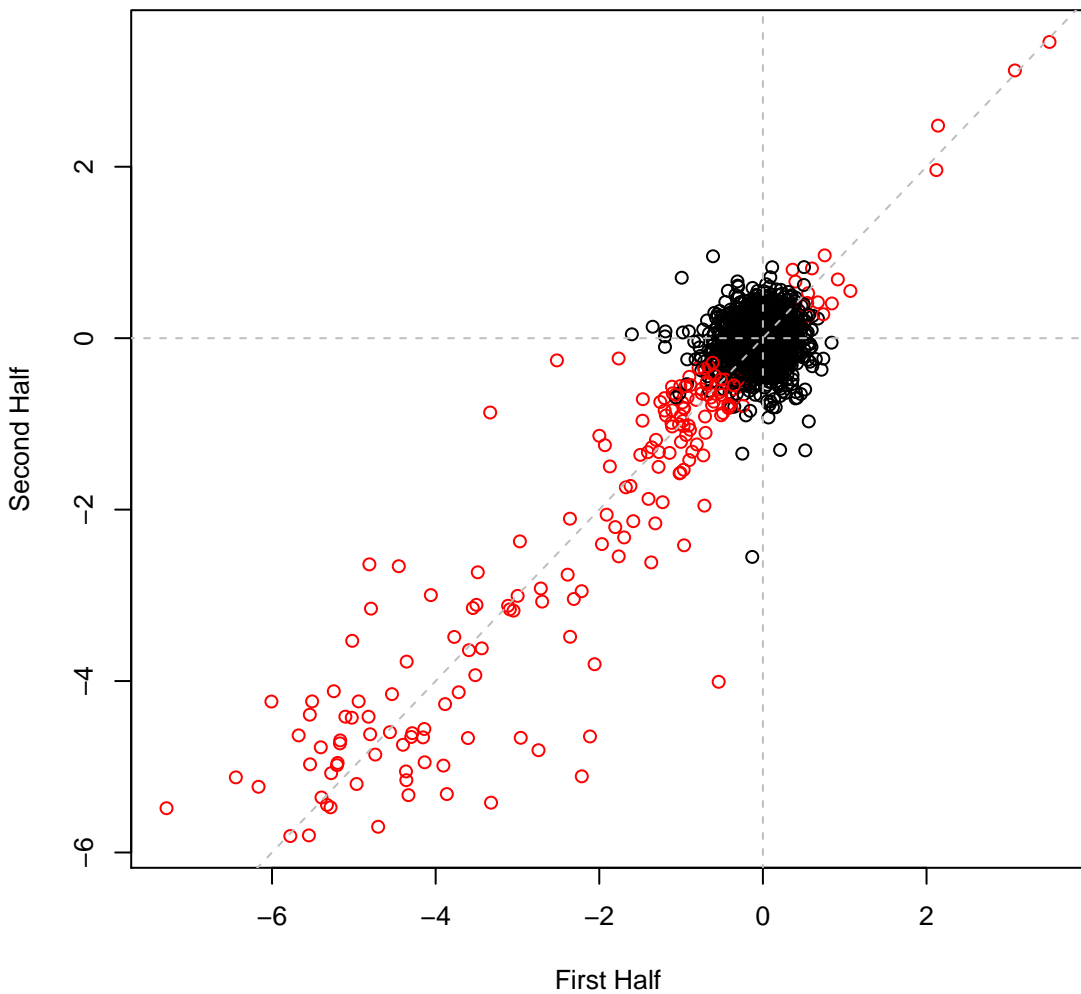
**Keio set1IT012 #12 (gMed=225 rho12=0.454)**  
**D-Xylose (C)**



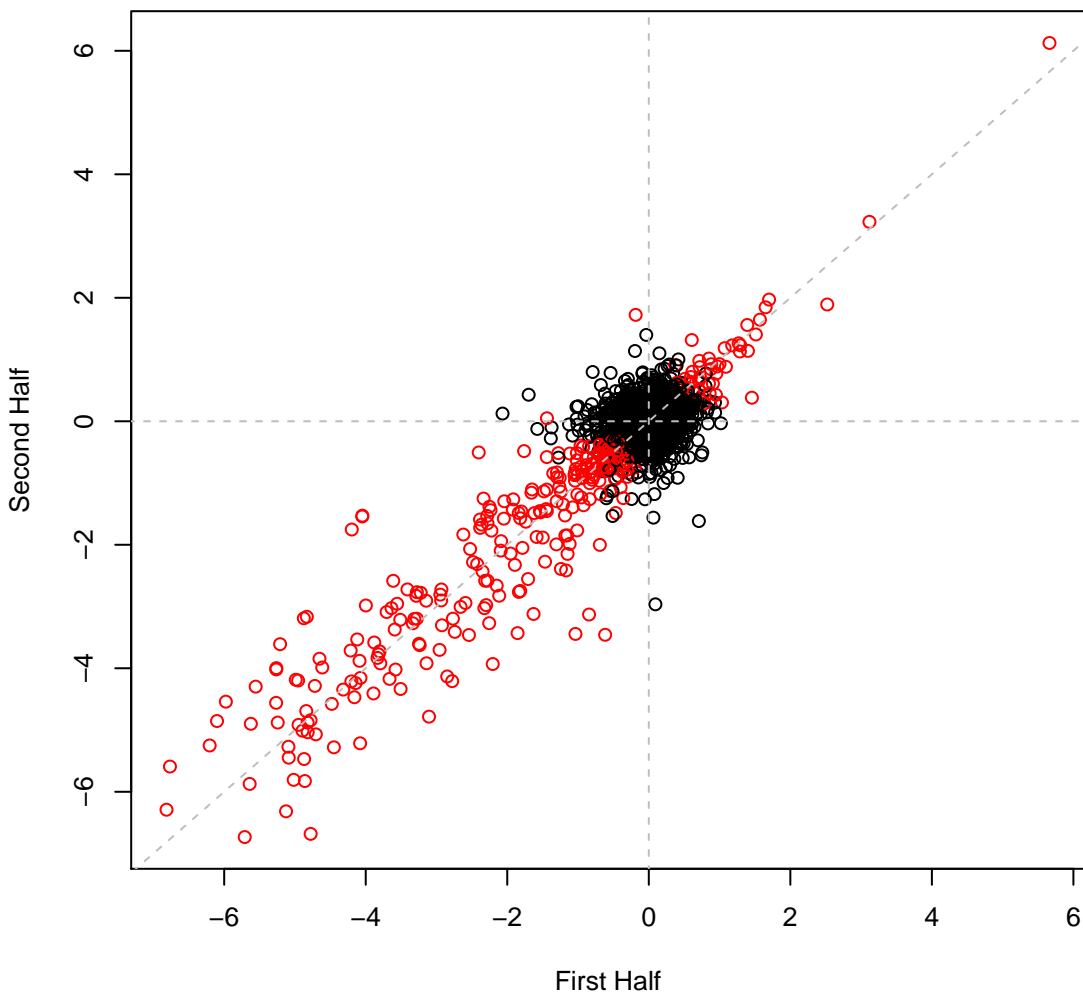
**Keio set1IT013 #13 (gMed=199 rho12=0.299)**  
**D-Galactose (C)**



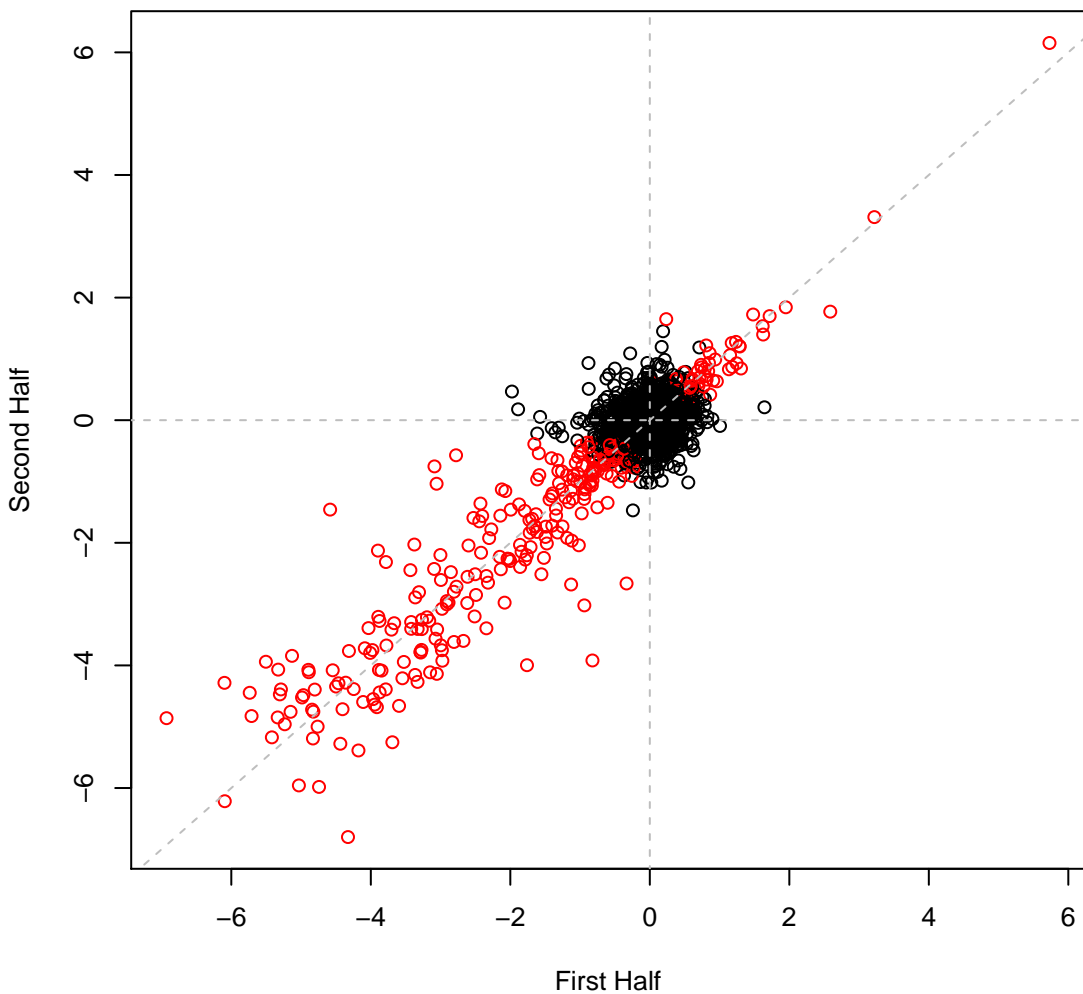
**Keio set1IT014 #14 (gMed=192 rho12=0.271)**  
**D-Galactose (C)**



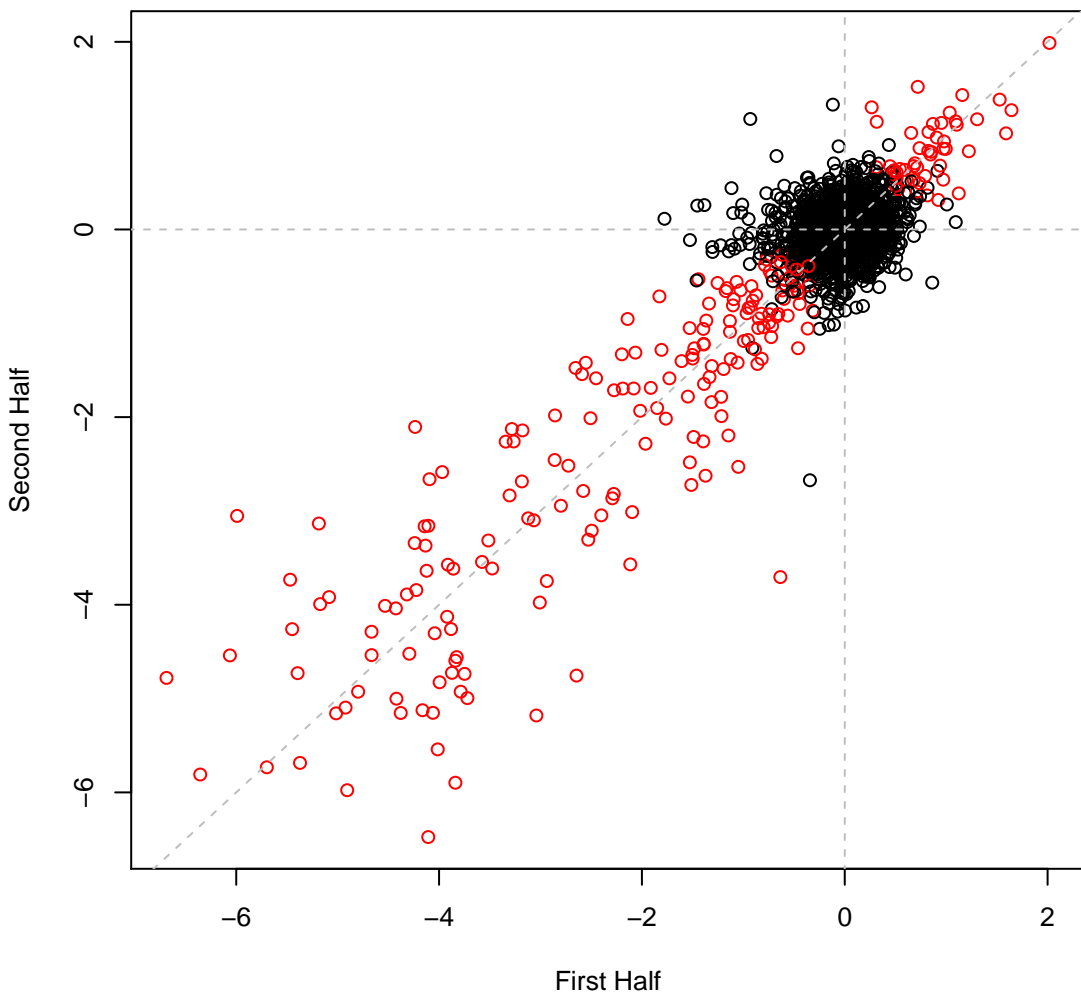
**Keio set1IT015 #15 (gMed=186 rho12=0.437)**  
**D-Ribose (C)**



**Keio set1IT016 #16 (gMed=210 rho12=0.442)**  
**D-Ribose (C)**

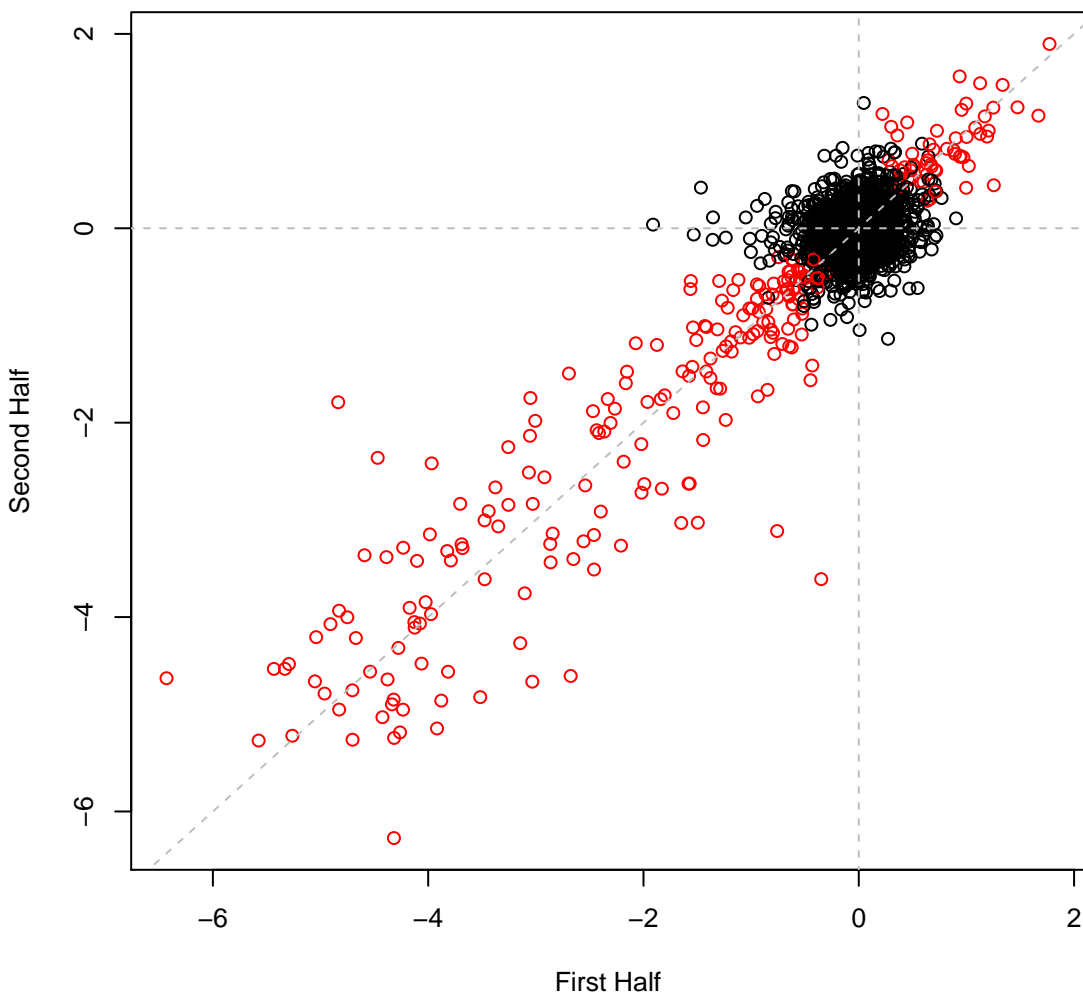


Keio set1IT017 #17 (gMed=199 rho12=0.379)  
L-Fucose (C)

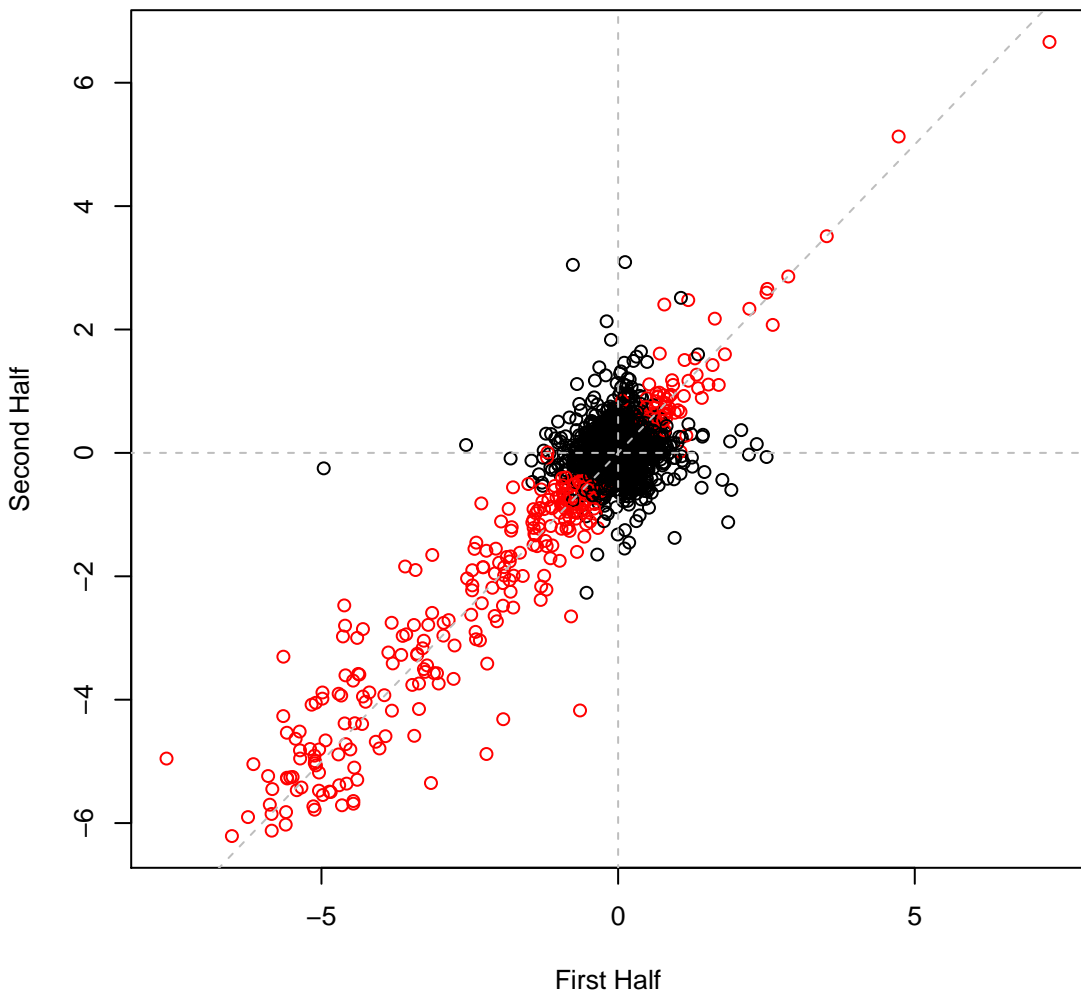




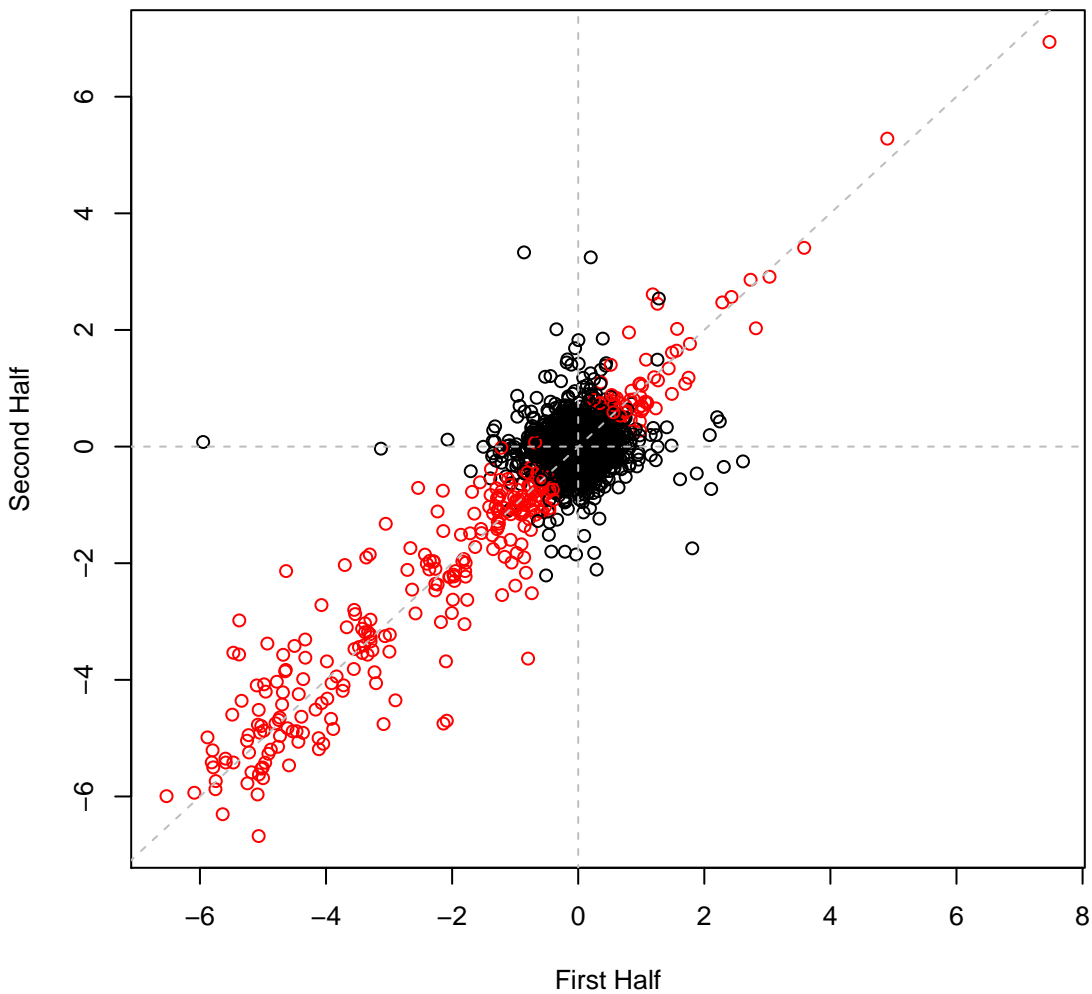
**Keio set1IT018 #18 (gMed=199 rho12=0.386)**  
**L-Fucose (C)**



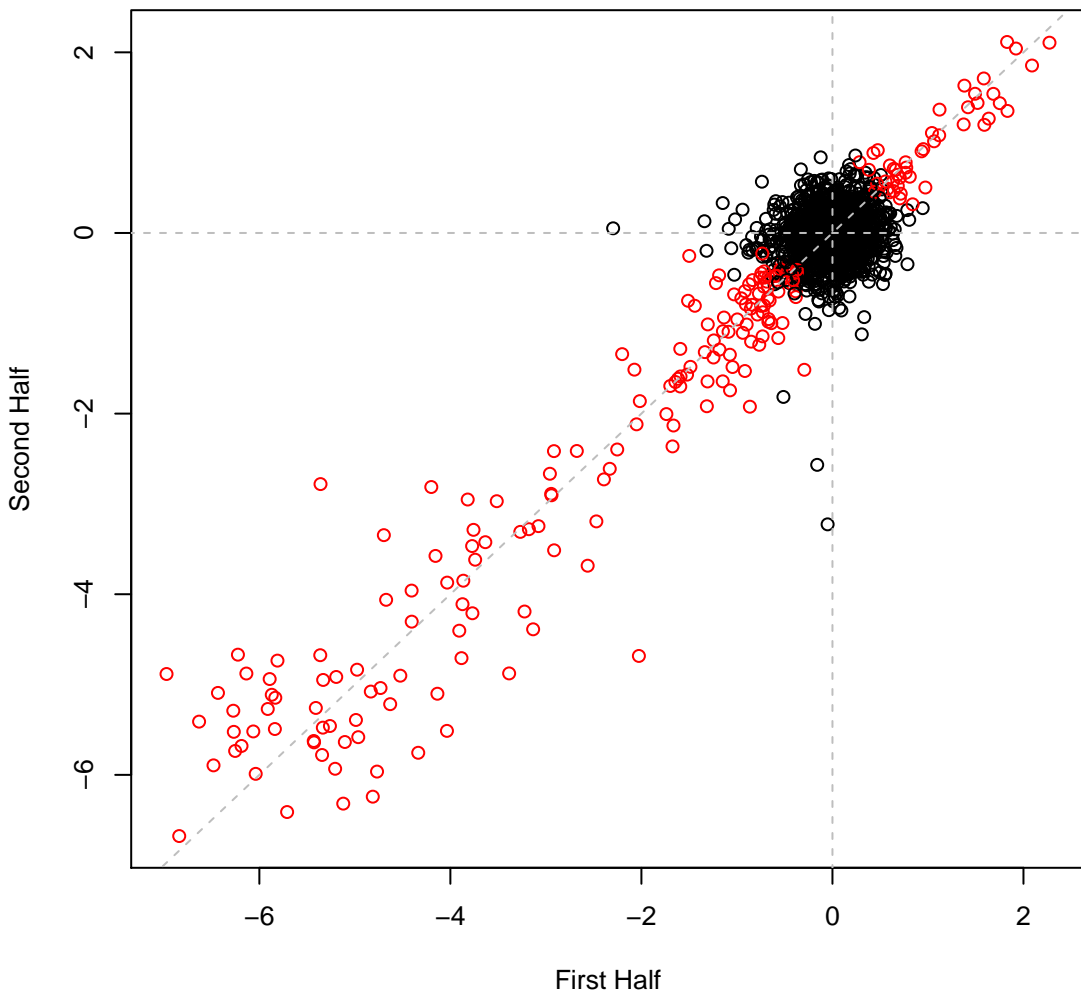
**Keio set1IT019 #19 (gMed=173 rho12=0.423)**  
 **$\alpha$ -Ketoglutaric (C)**



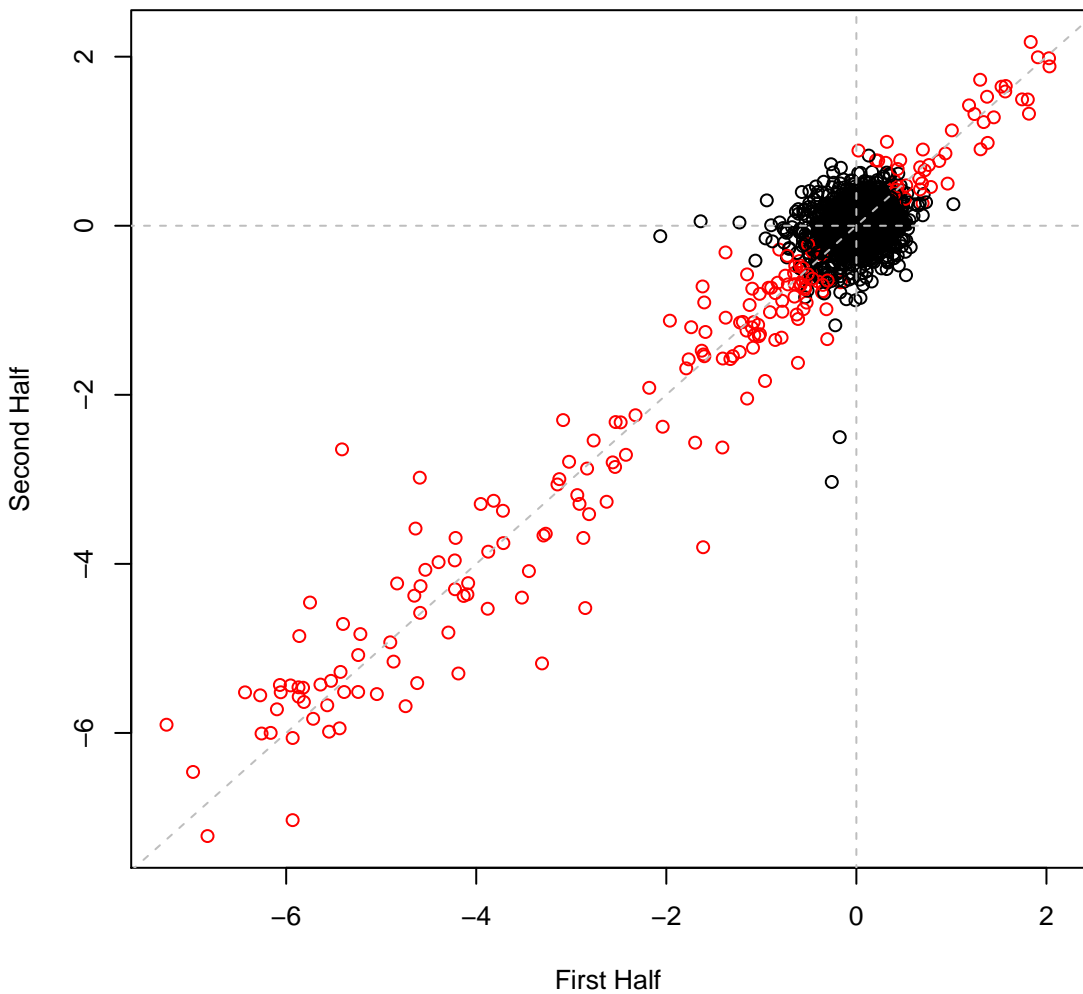
**Keio set1IT020 #20 (gMed=170 rho12=0.422)**  
 **$\alpha$ -Ketoglutaric (C)**



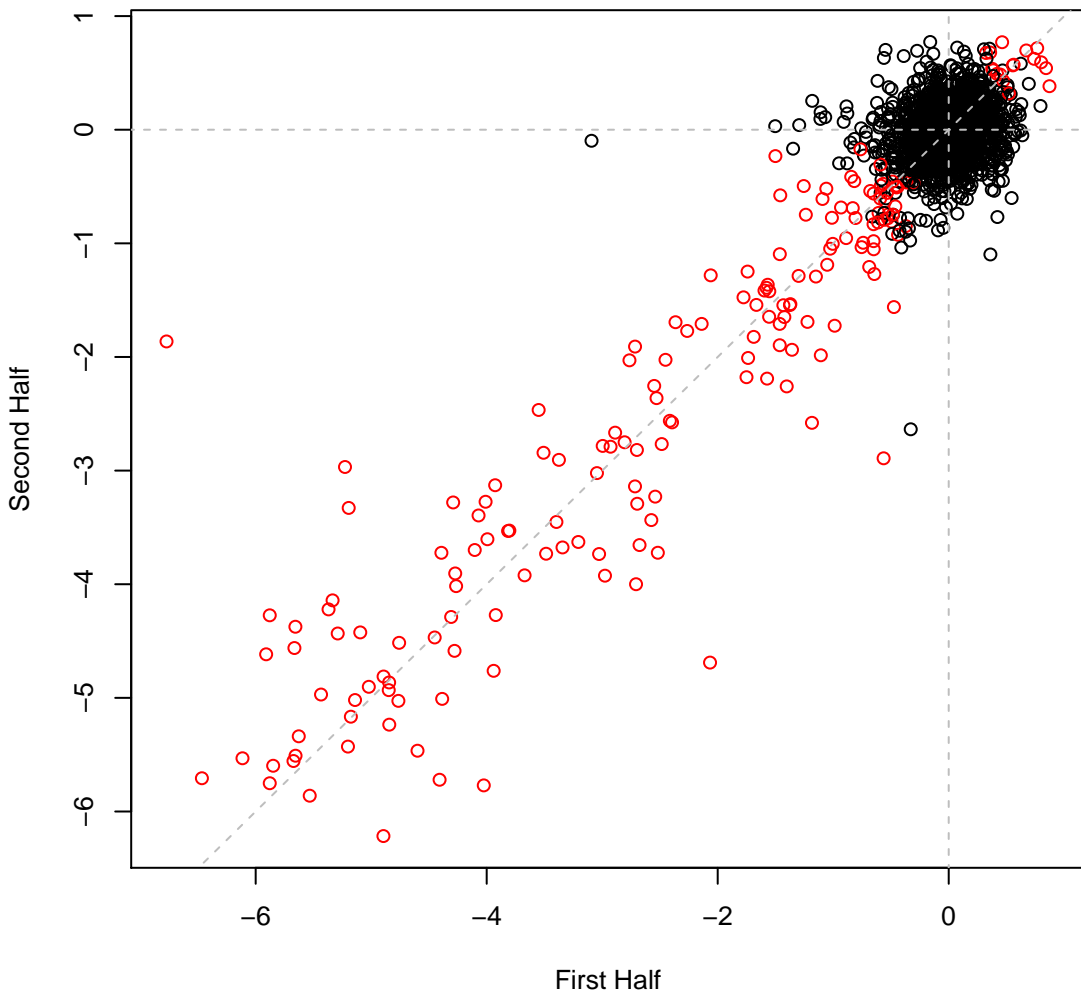
**Keio set1IT021 #21 (gMed=210 rho12=0.323)**  
**D-Glucuronic Acid (C)**



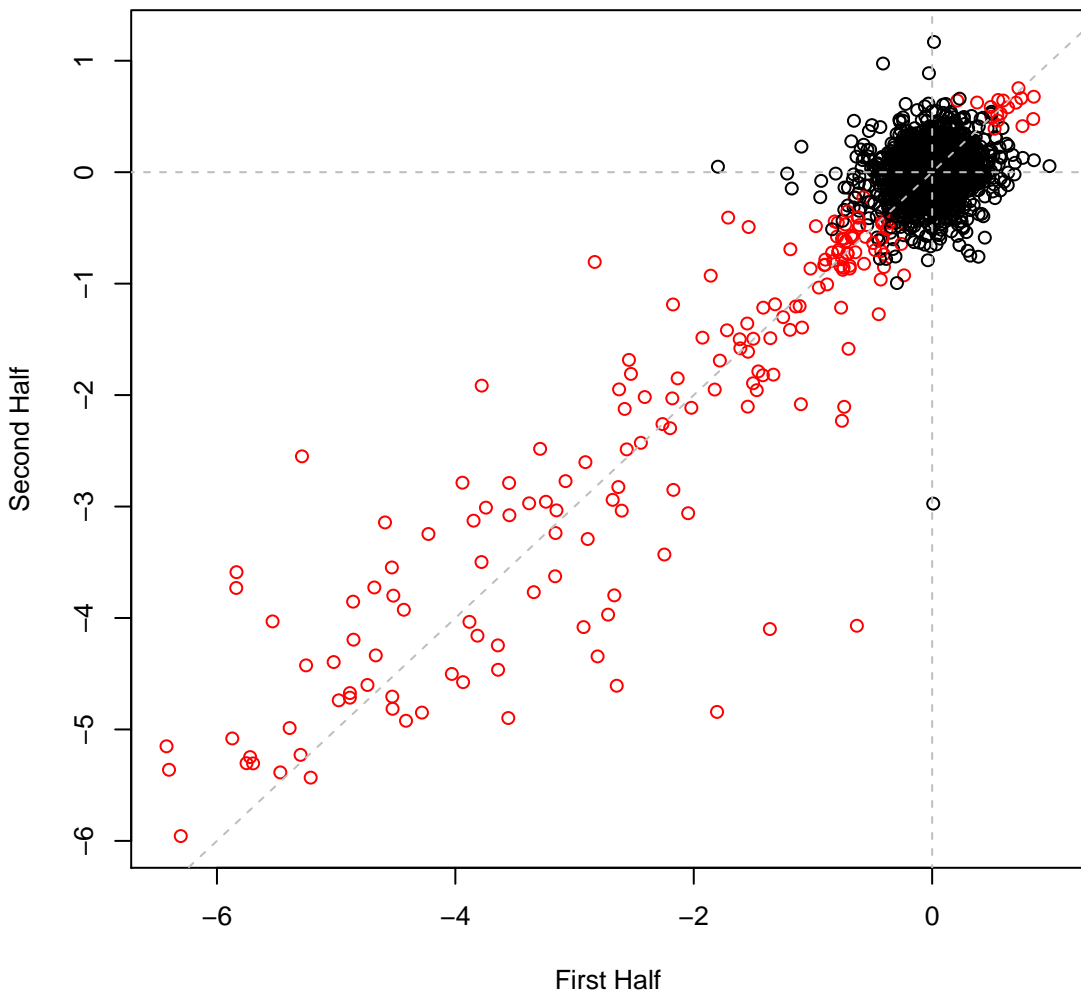
**Keio set1IT022 #22 (gMed=209 rho12=0.355)**  
**D-Glucuronic Acid (C)**



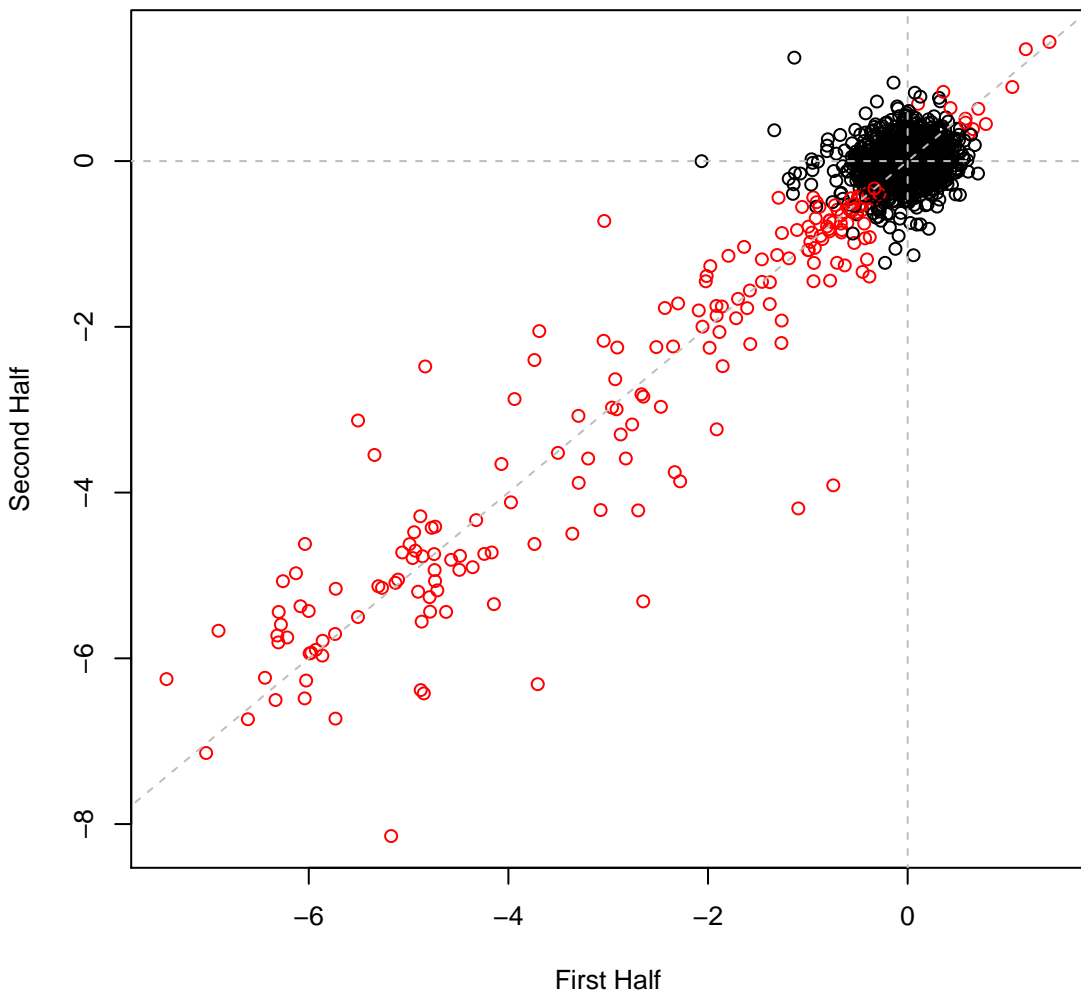
**Keio set1IT023 #23 (gMed=178 rho12=0.325)**  
**D-Gluconic Acid (C)**



**Keio set1IT024 #24 (gMed=198 rho12=0.306)**  
**D-Gluconic Acid (C)**

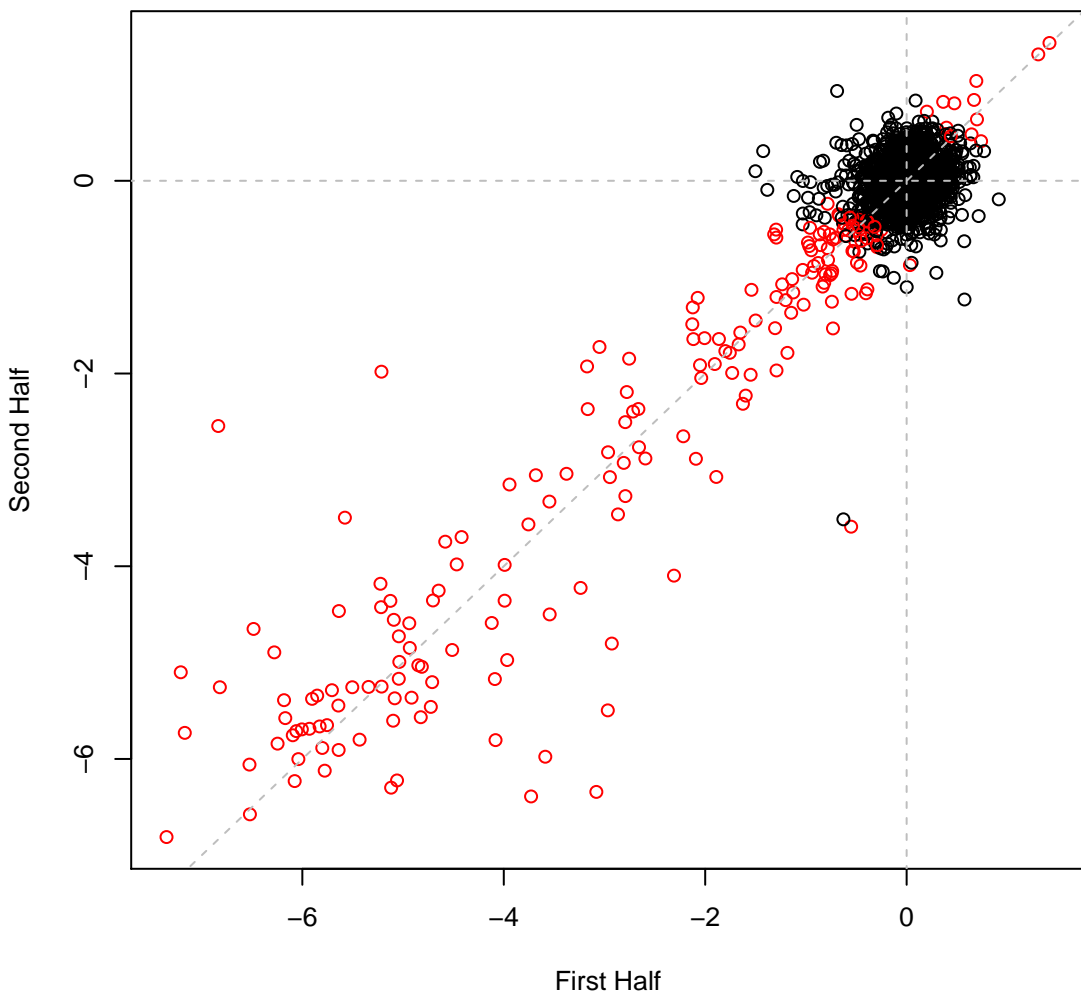


**Keio set1IT025 #25 (gMed=208 rho12=0.349)**  
**D-Glucose-6-Phosphate (C)**

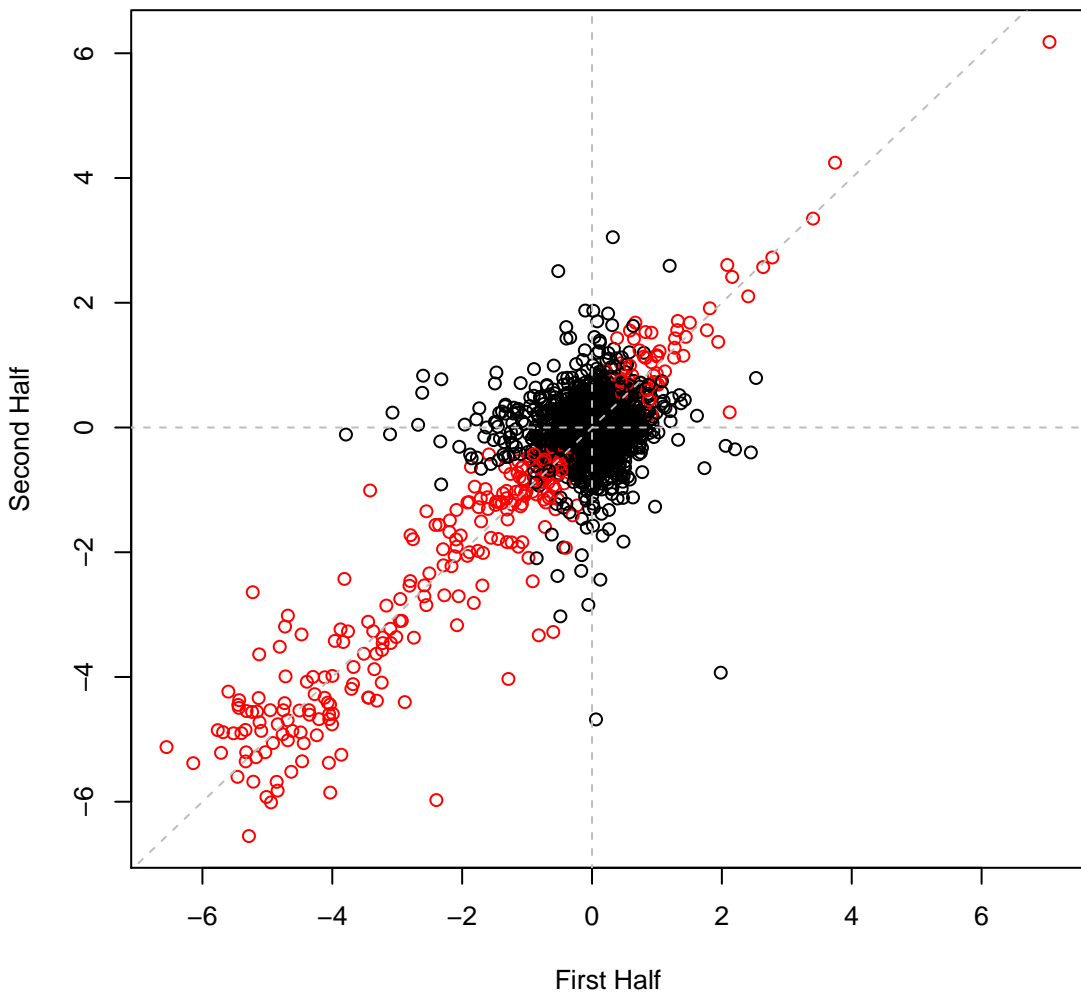




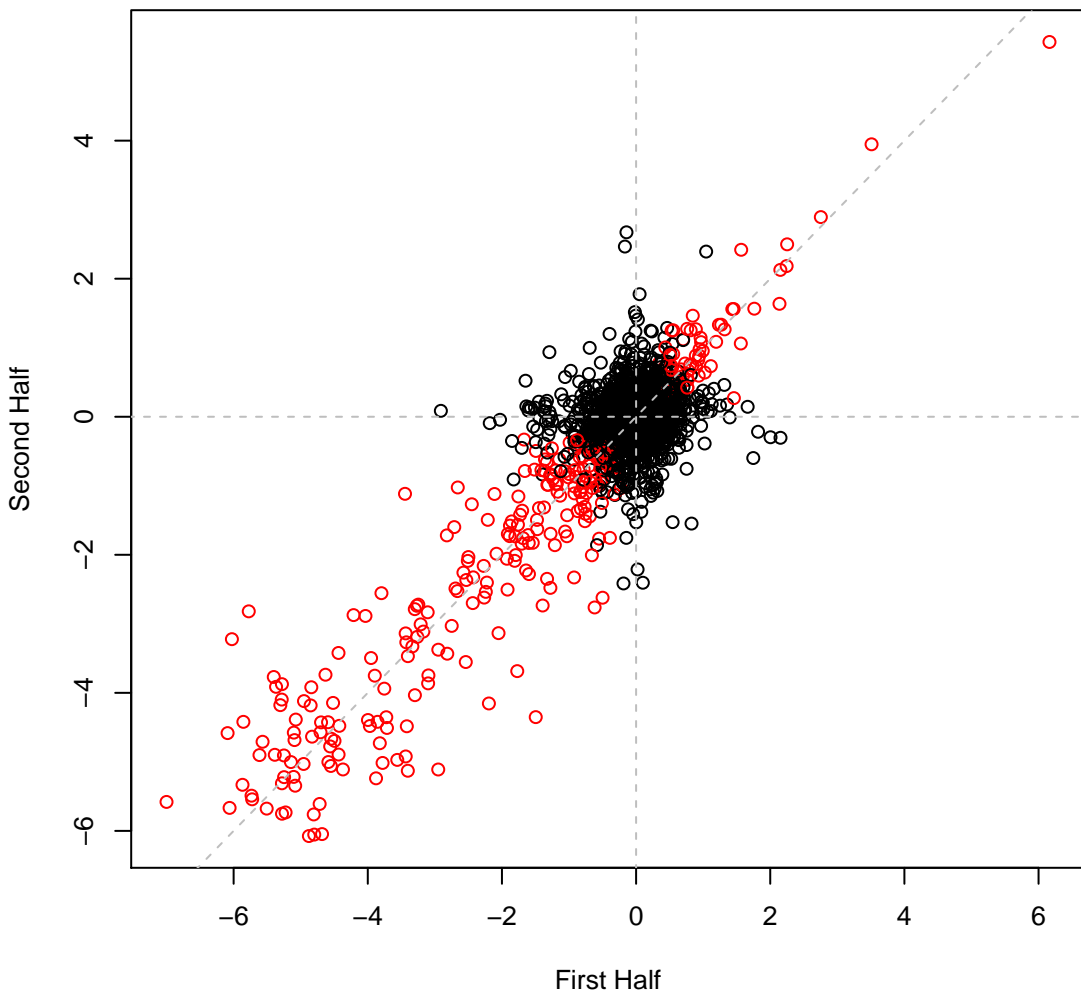
**Keio set1IT026 #26 (gMed=195 rho12=0.331)**  
**D-Glucose-6-Phosphate (C)**



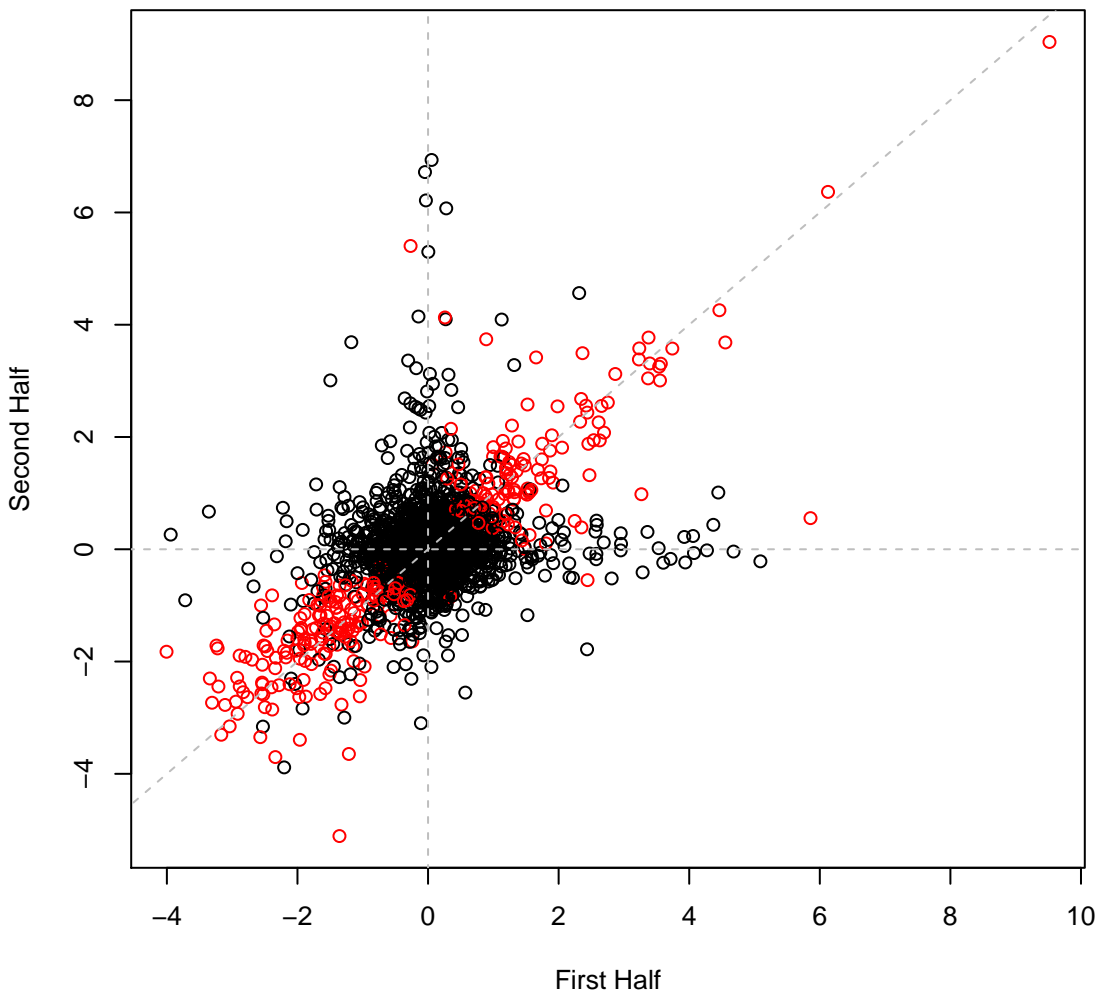
**Keio set1IT027 #27 (gMed=178 rho12=0.391)**  
**acetate (C)**



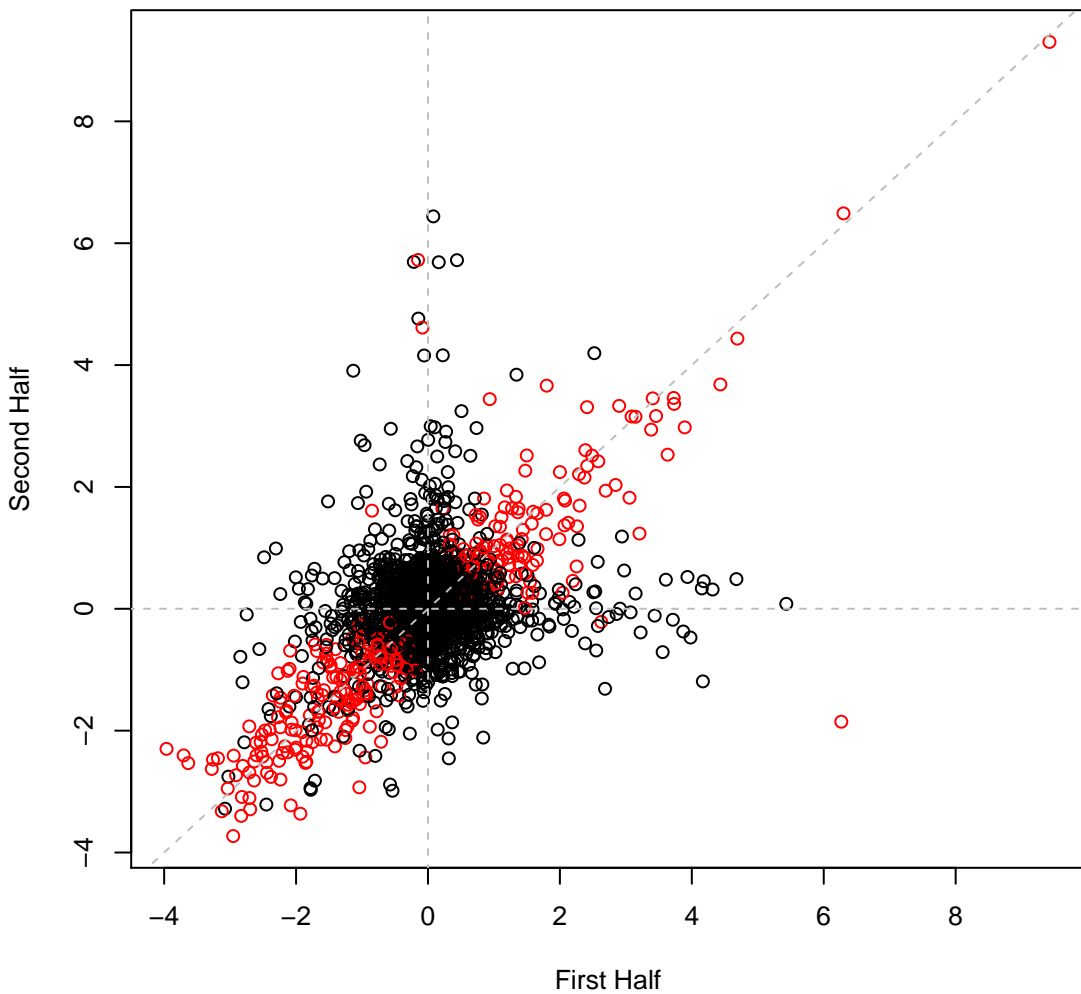
**Keio set1IT028 #28 (gMed=177 rho12=0.395)**  
**acetate (C)**



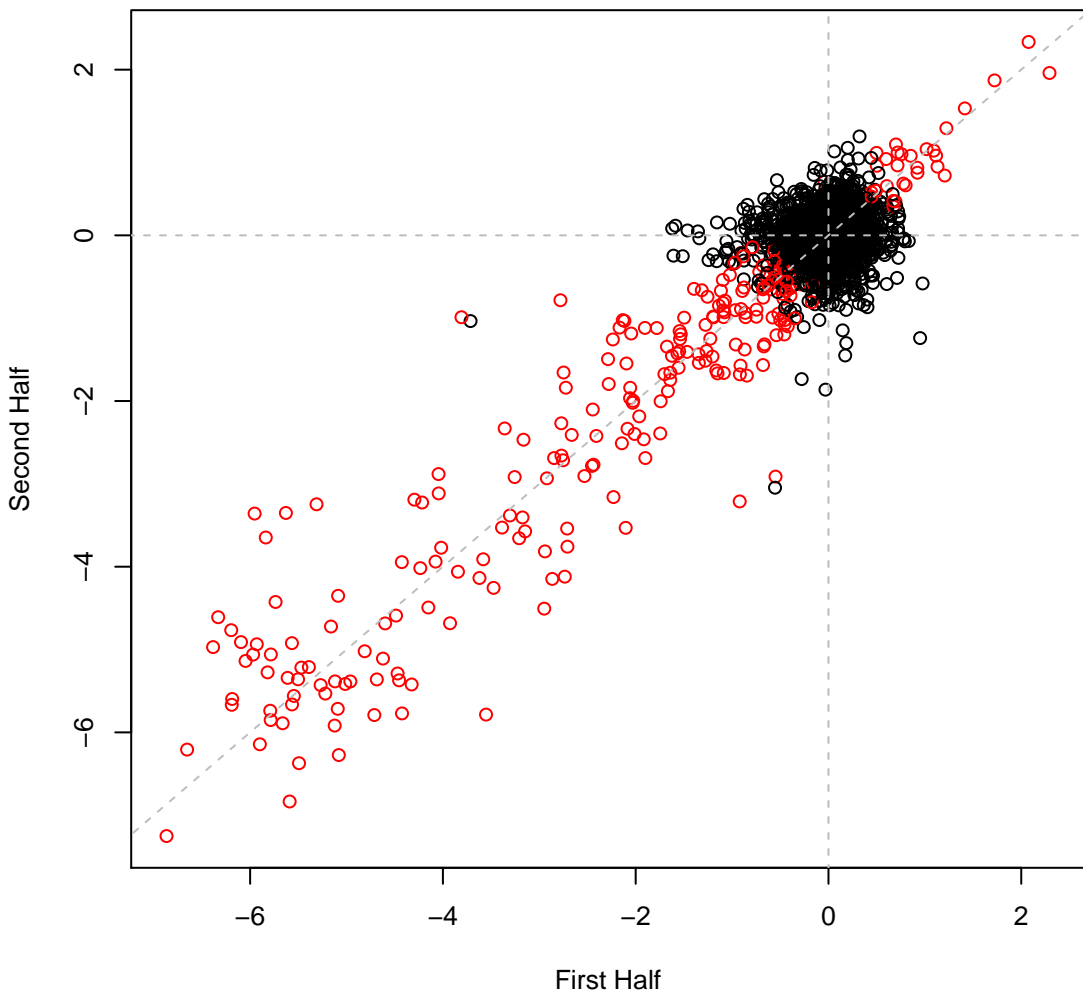
**Keio set1IT029 #29 (gMed=50 rho12=0.371)**  
**Fumarate (C)**



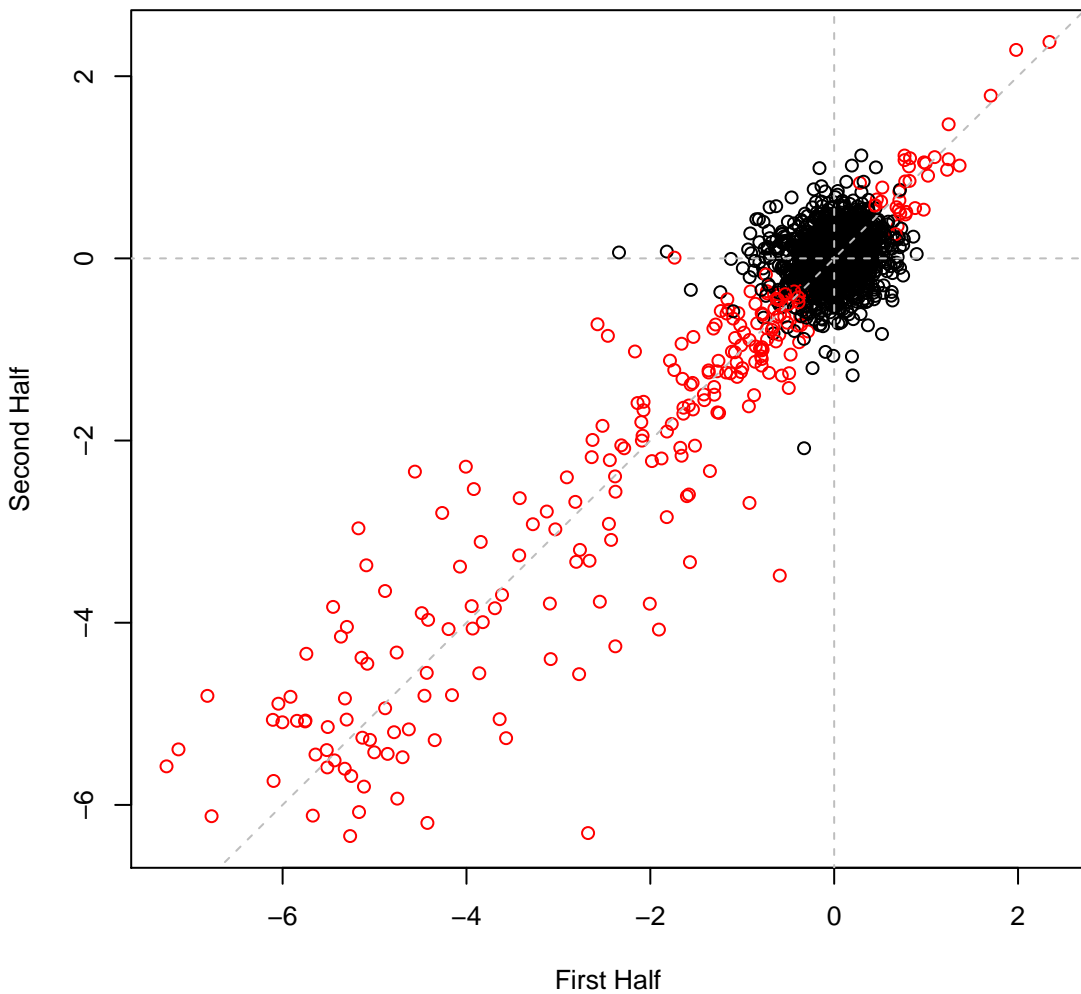
**Keio set1IT030 #30 (gMed=49 rho12=0.362)**  
**Fumarate (C)**



**Keio set1IT031 #31 (gMed=193 rho12=0.343)**  
**D-Lactate (C)**

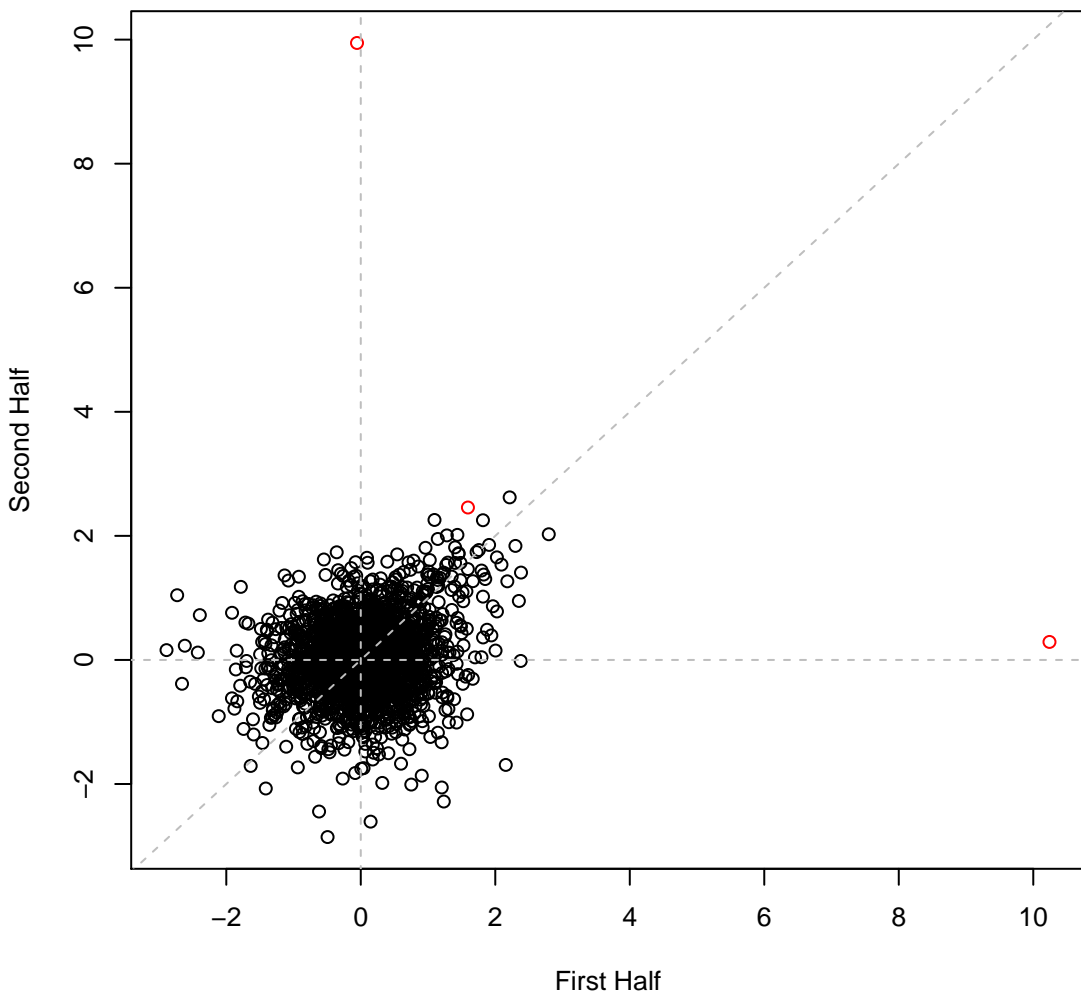


**Keio set1IT032 #32 (gMed=184 rho12=0.382)**  
**D-Lactate (C)**



Keio set1IT033 #33 (gMed=0 rho12=0.143)

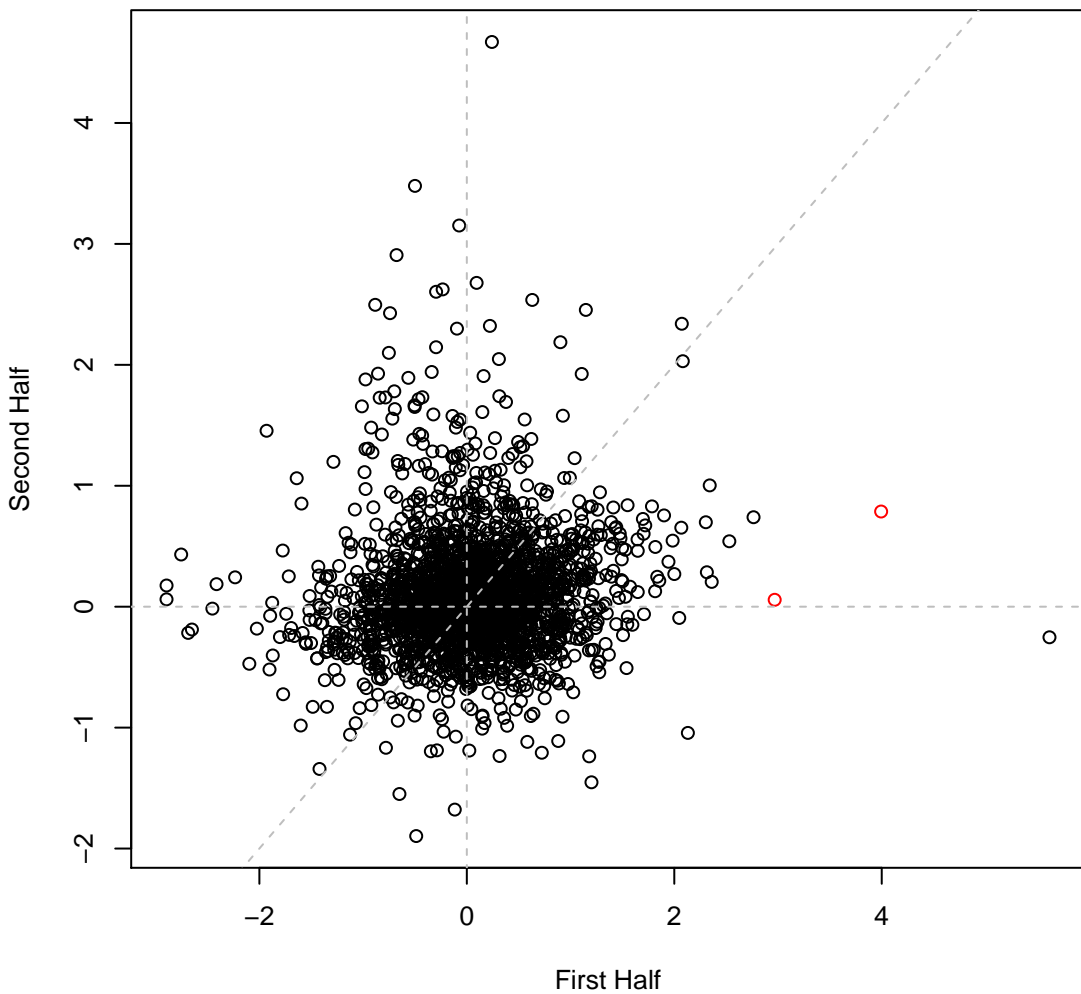
L-Lactate (C)



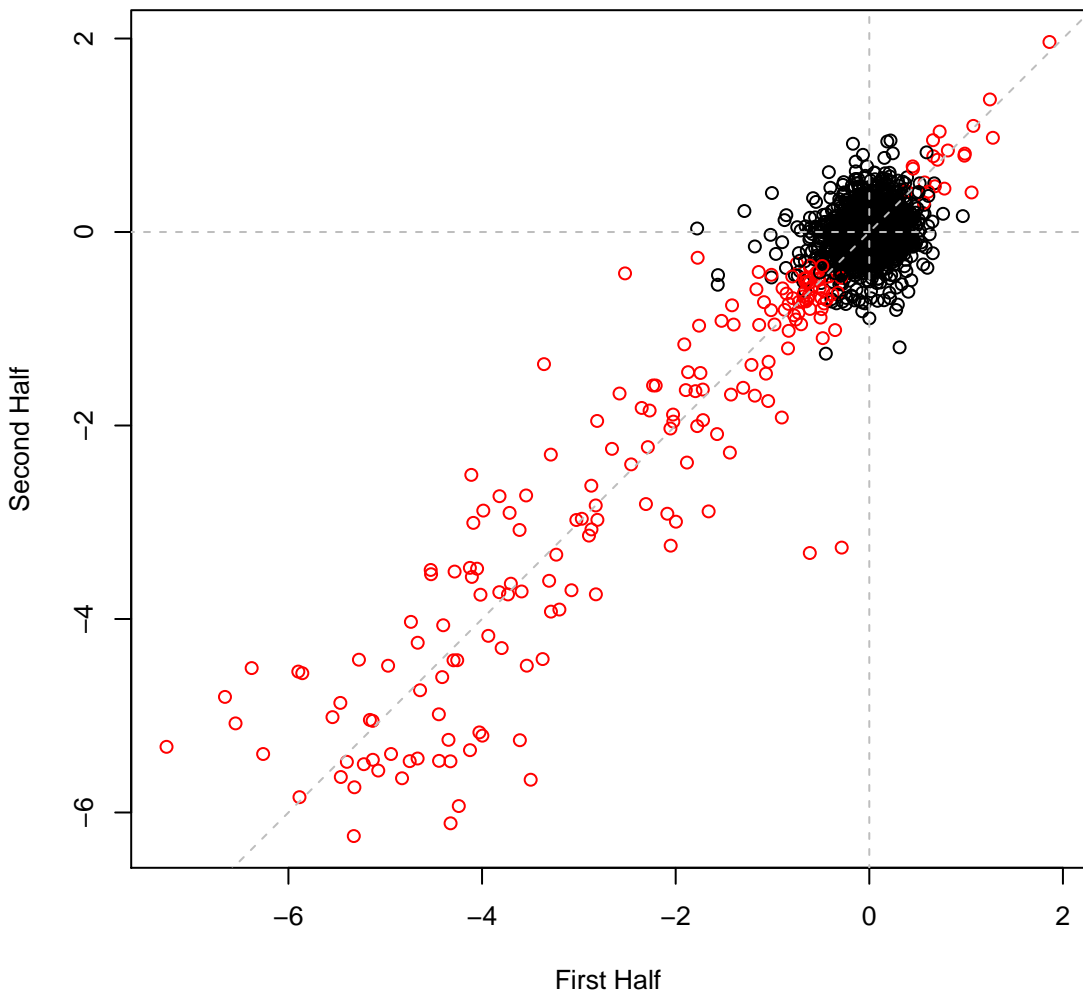


Keio set1IT034 #34 (gMed=0 rho12=0.116)

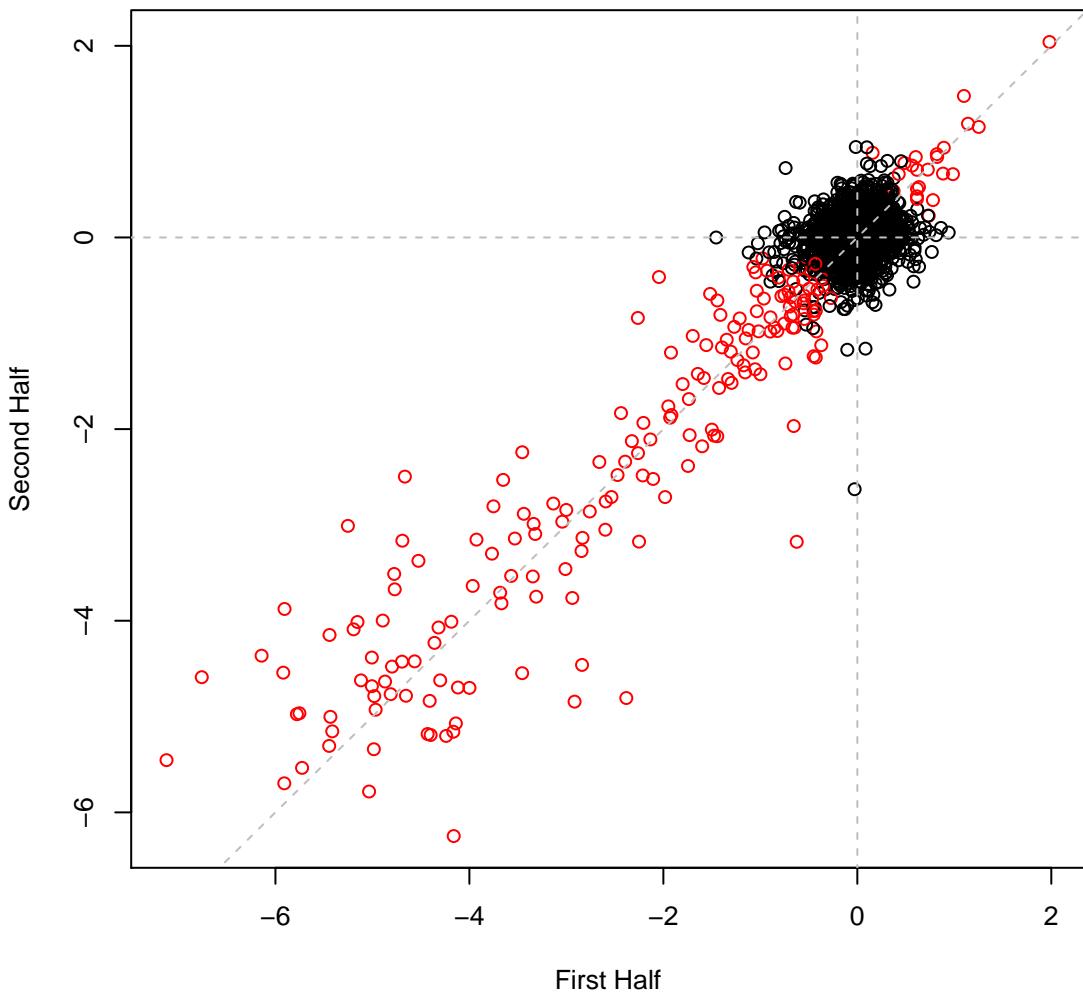
L-Lactate (C)



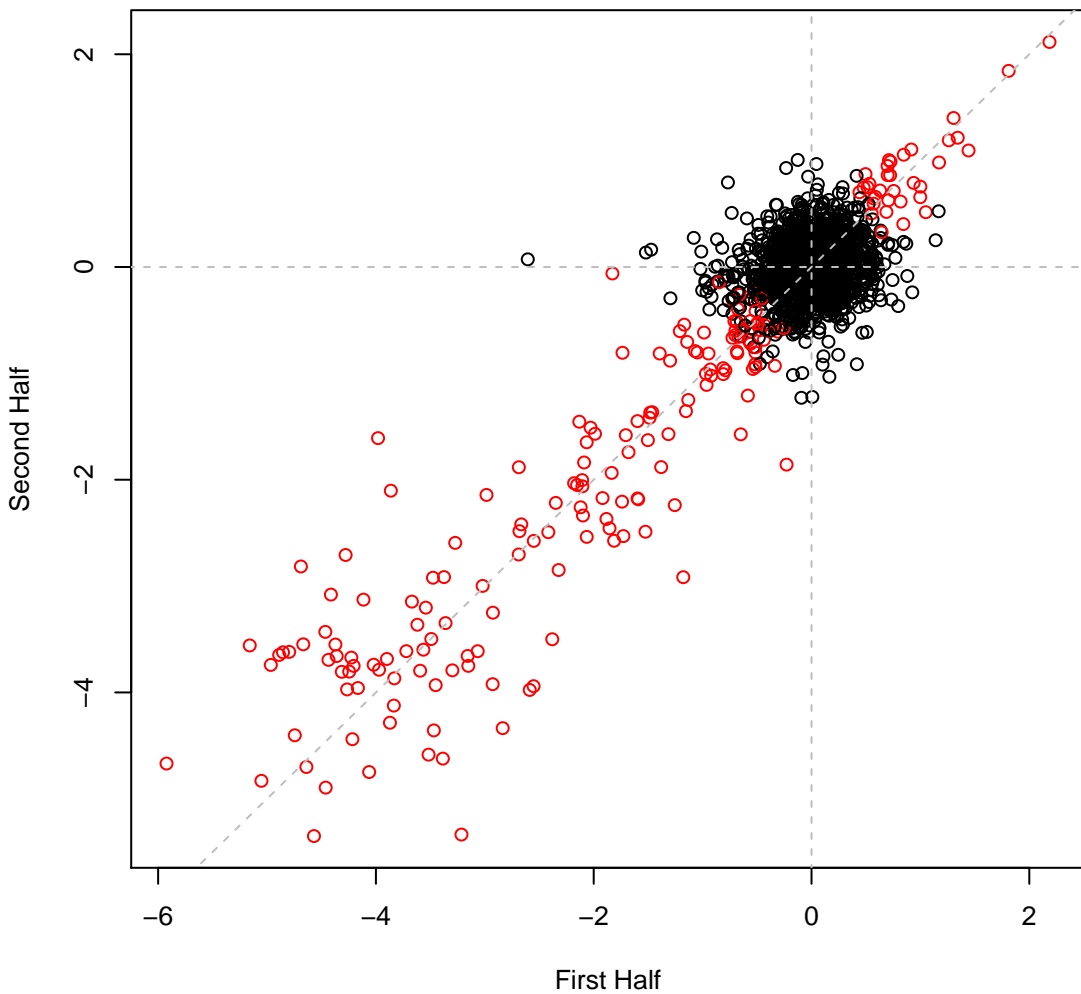
**Keio set1IT035 #35 (gMed=190 rho12=0.341)**  
**D,L-Lactate (C)**



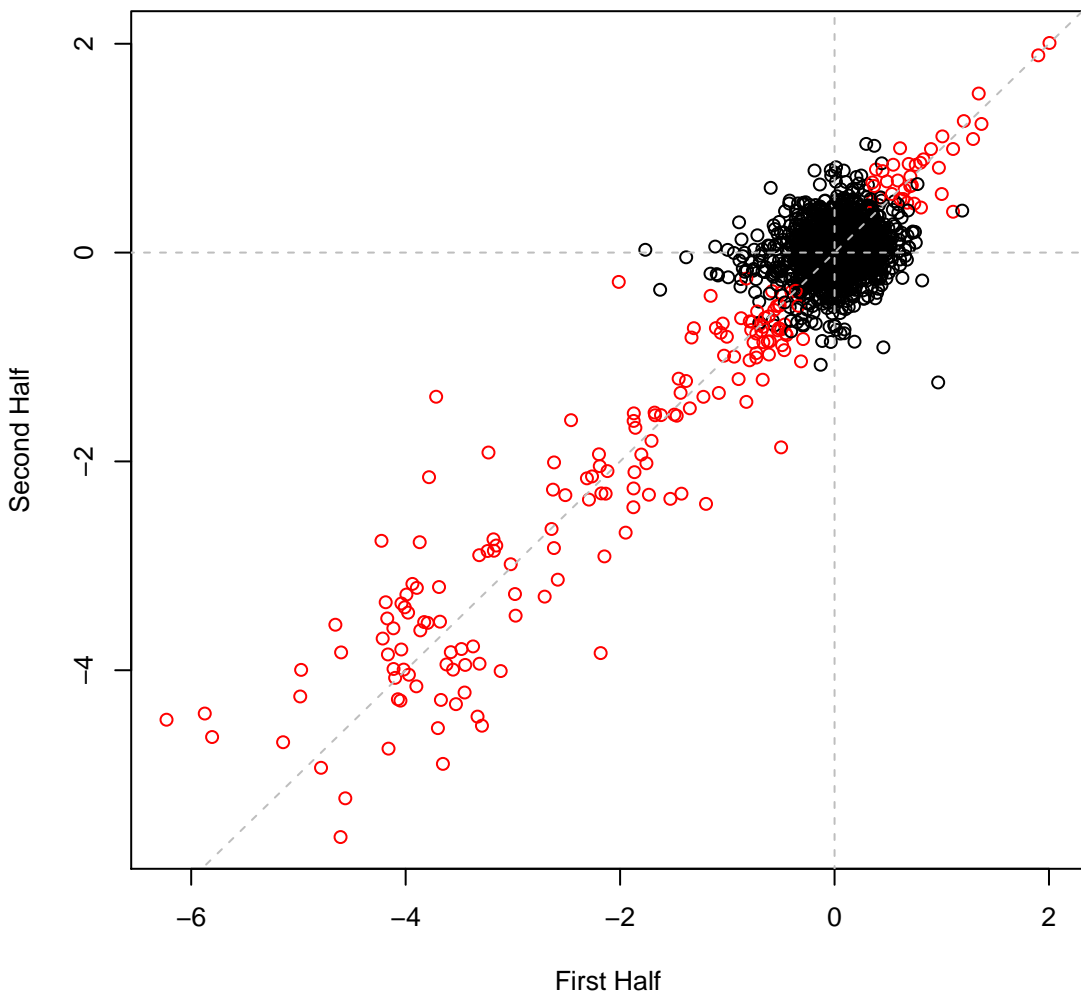
**Keio set1IT036 #36 (gMed=191 rho12=0.336)**  
**D,L-Lactate (C)**



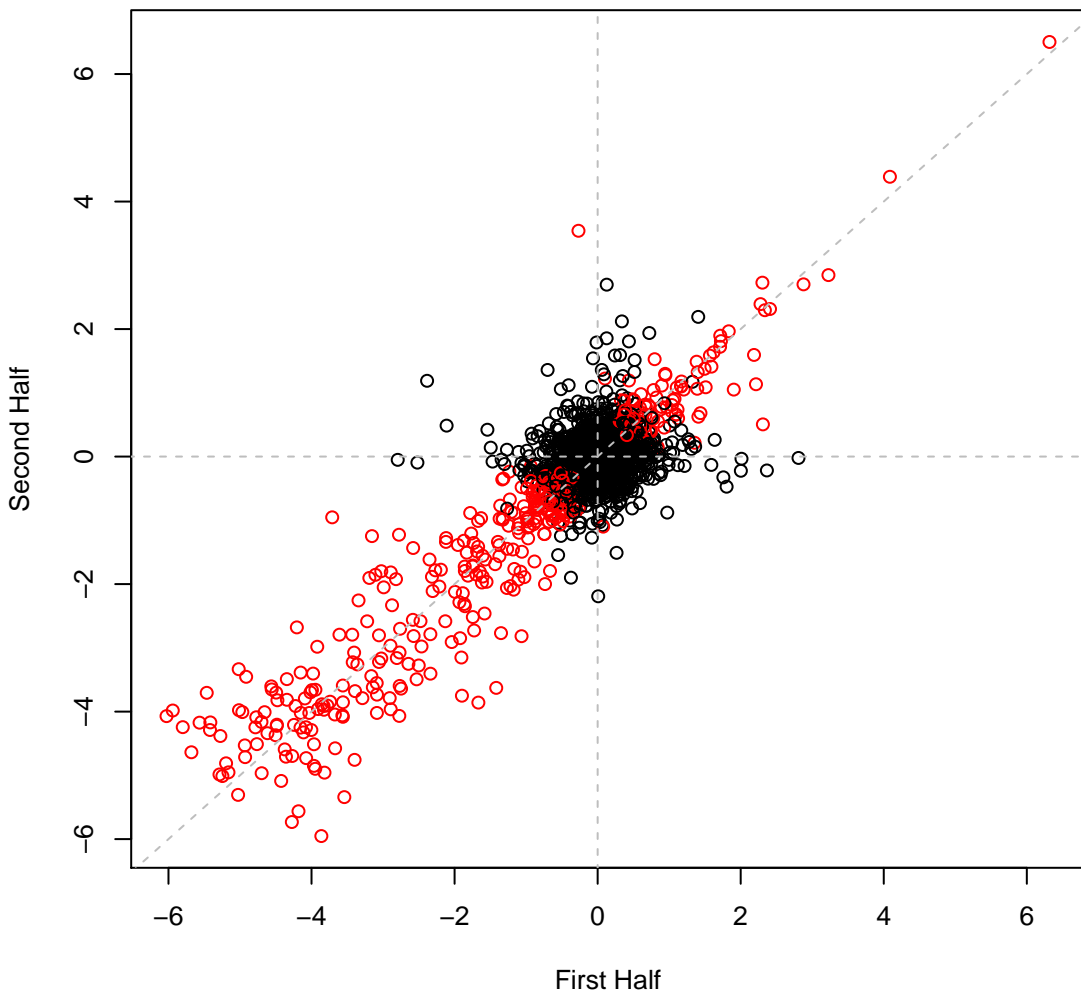
**Keio set1IT037 #37 (gMed=192 rho12=0.331)**  
**pyruvate (C)**



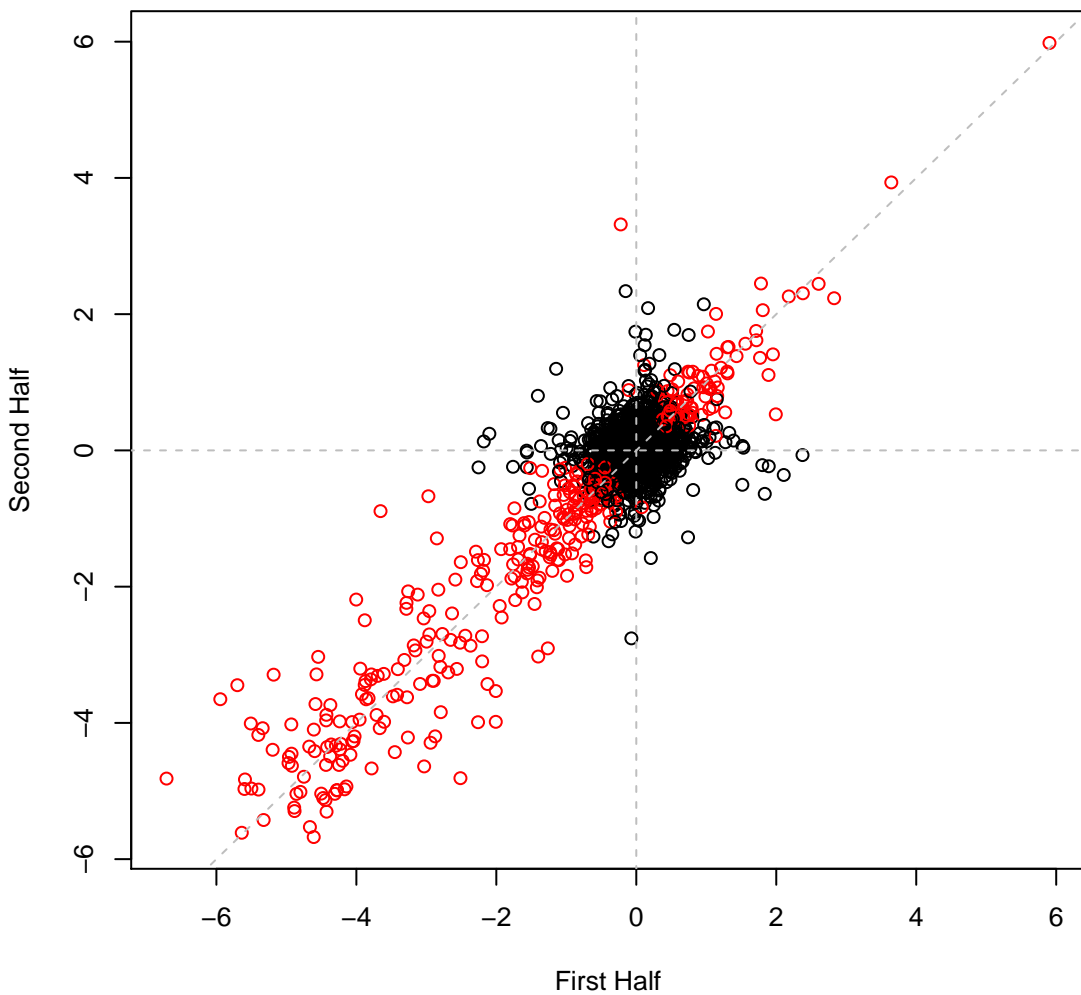
**Keio set1IT038 #38 (gMed=219 rho12=0.357)**  
**pyruvate (C)**



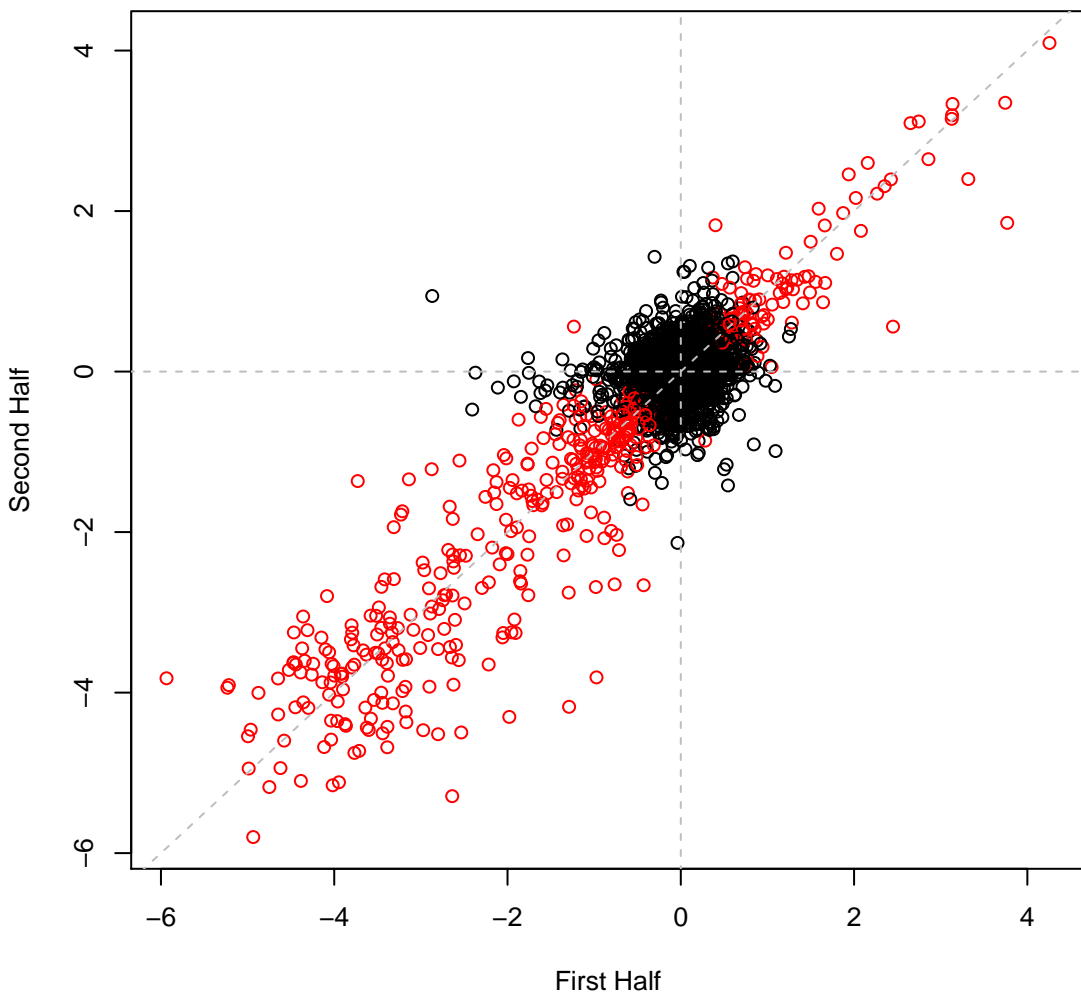
**Keio set1IT039 #39 (gMed=164 rho12=0.488)**  
**succinate (C)**



**Keio set1IT040 #40 (gMed=186 rho12=0.485)**  
**succinate (C)**

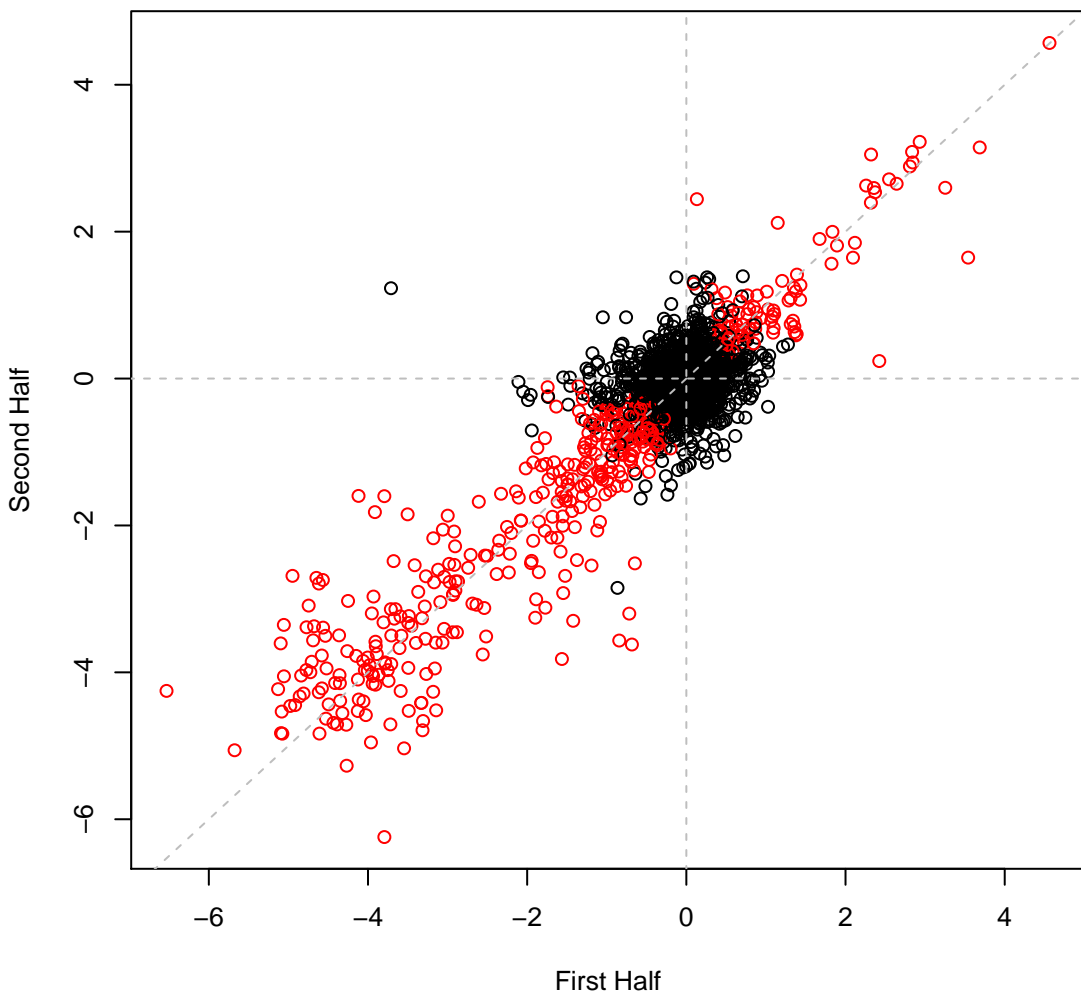


**Keio set1IT041 #41 (gMed=194 rho12=0.555)**  
**Glycolic Acid (C)**

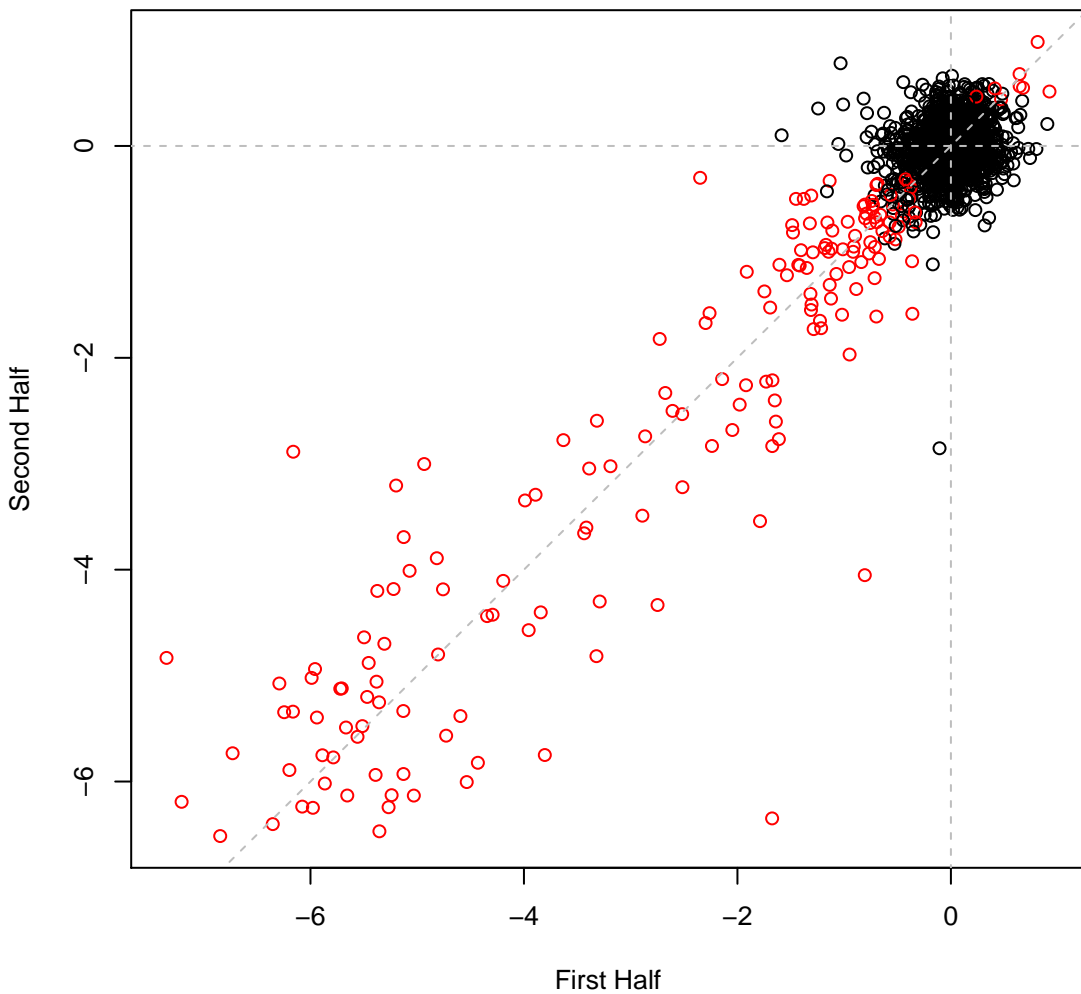




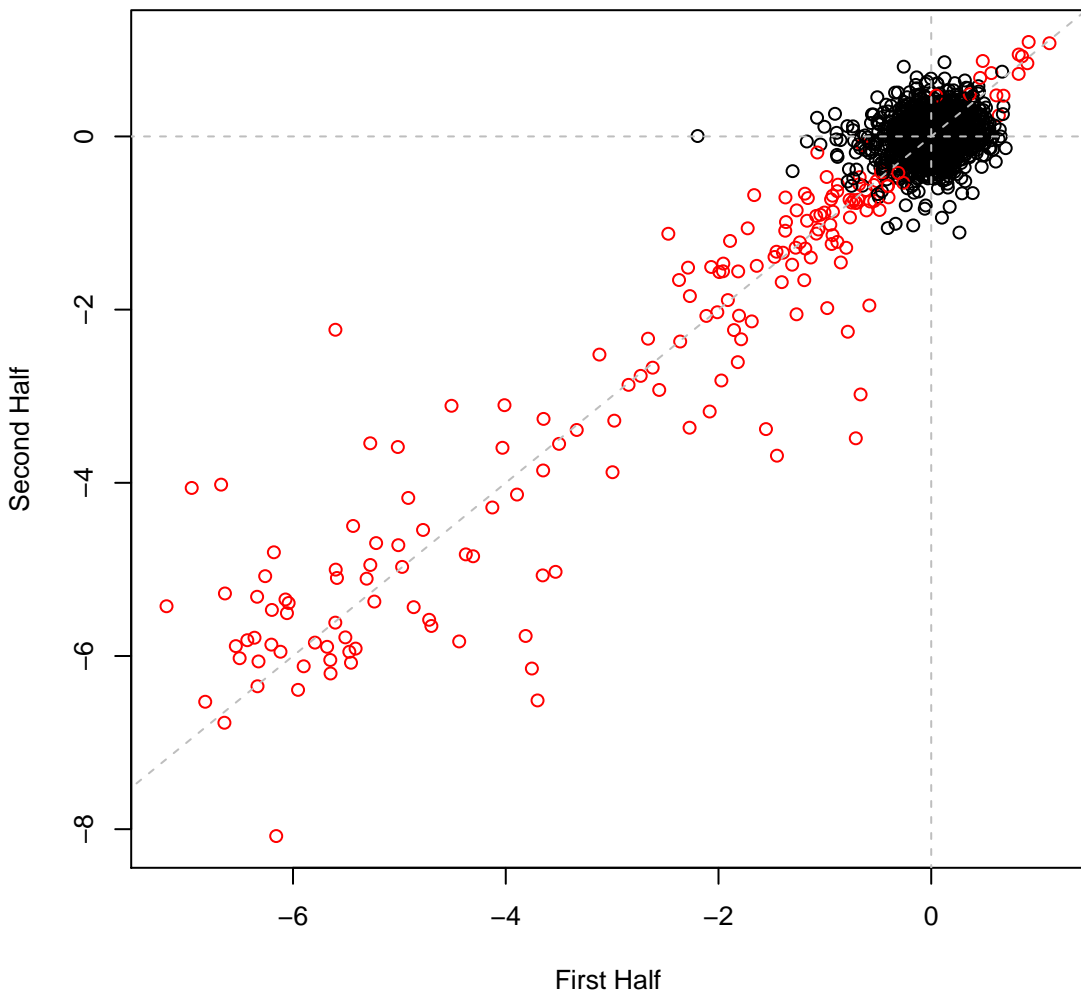
**Keio set1IT042 #42 (gMed=178 rho12=0.536)**  
**Glycolic Acid (C)**



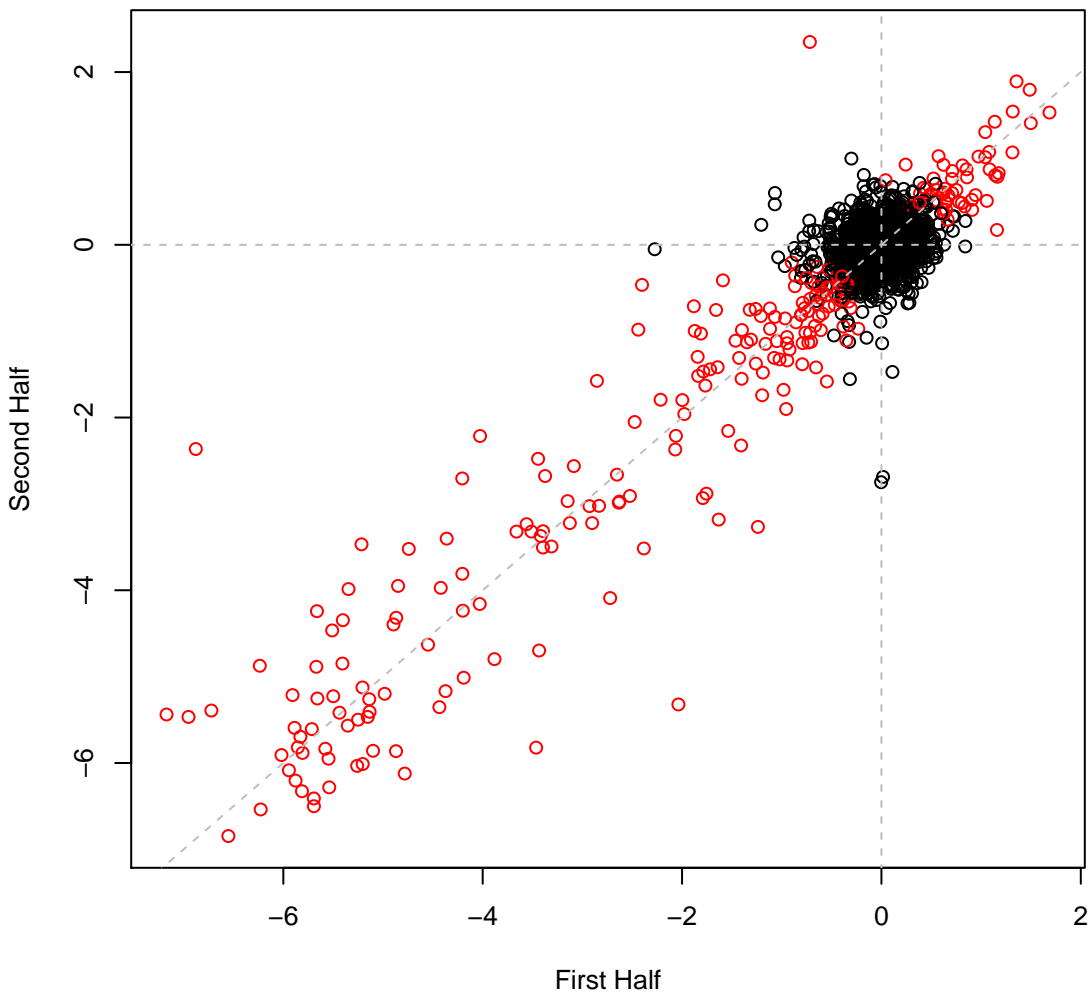
**Keio set1IT043 #43 (gMed=197 rho12=0.314)**  
**D-Mannitol (C)**



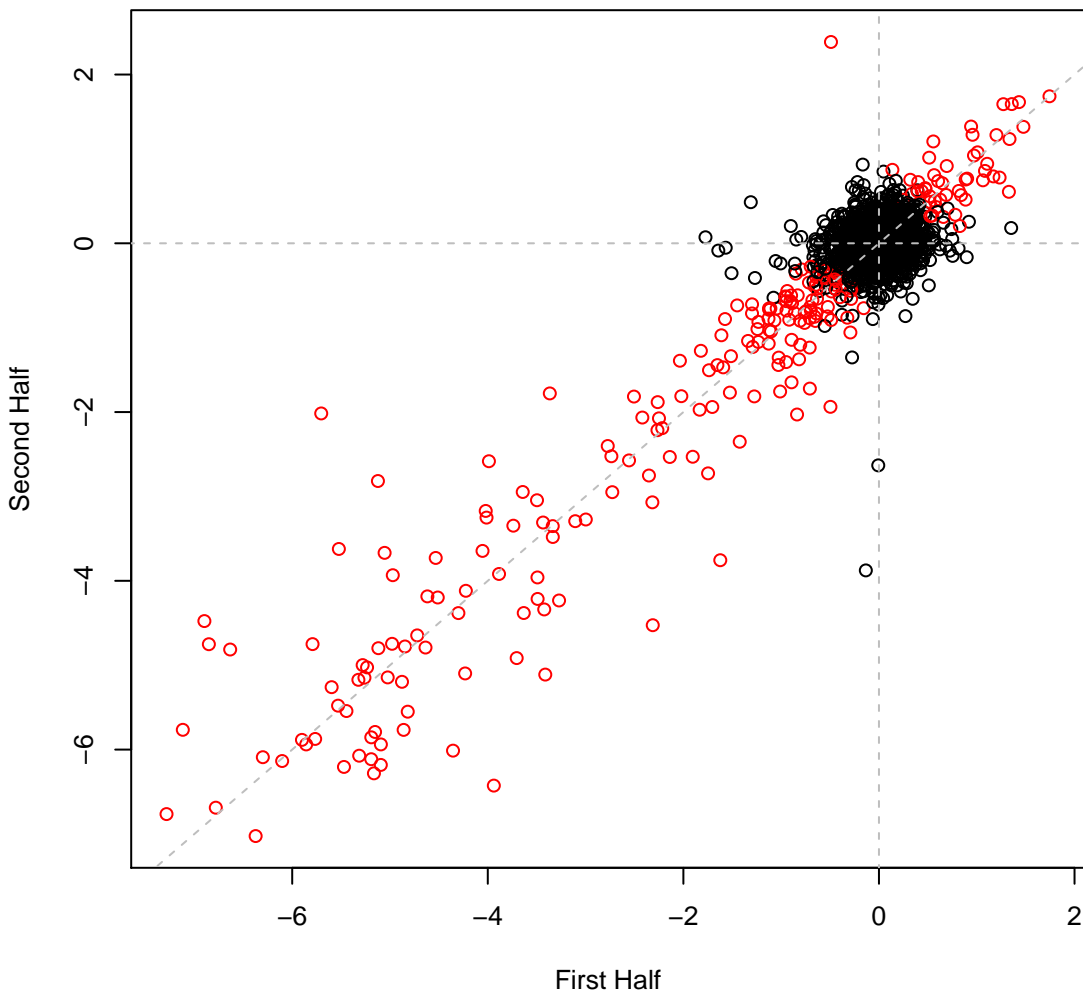
**Keio set1IT044 #44 (gMed=199 rho12=0.300)**  
**D-Mannitol (C)**



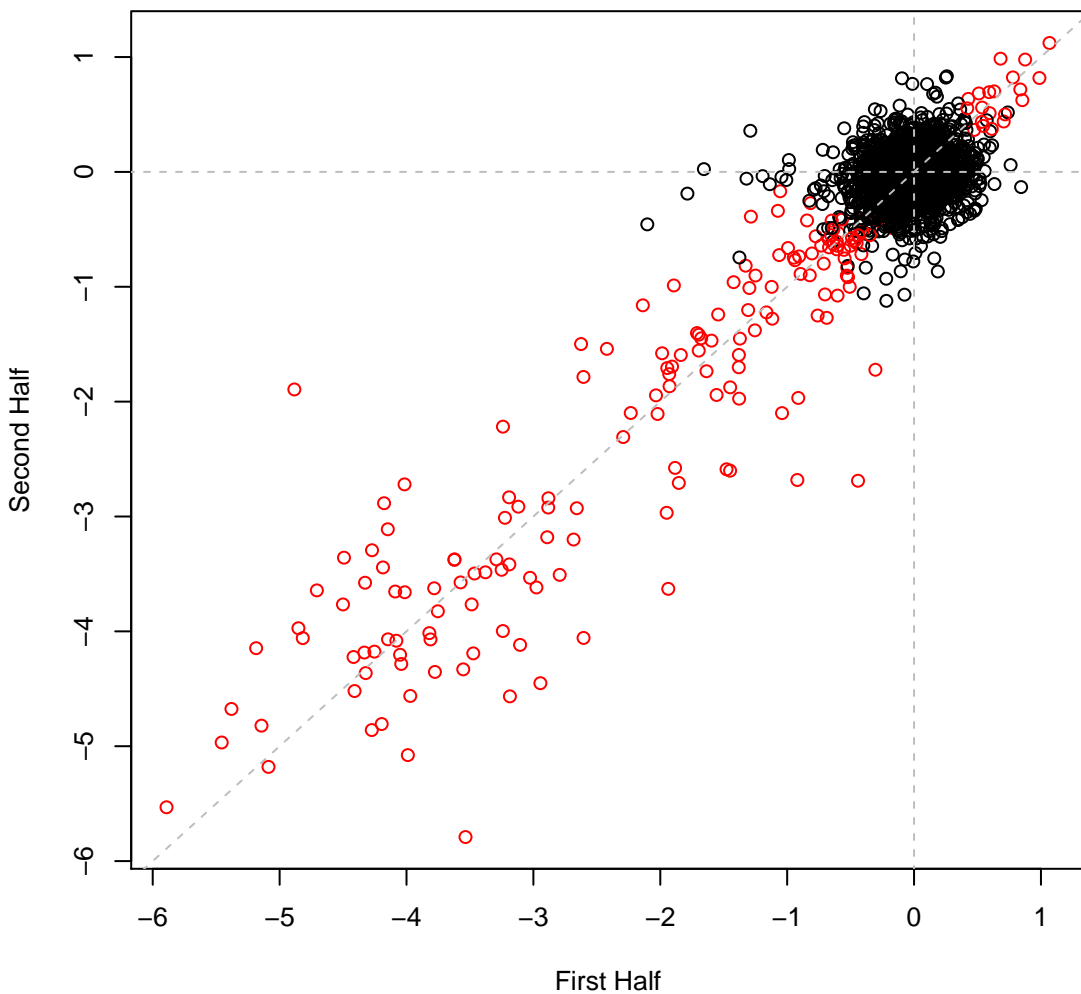
**Keio set1IT045 #45 (gMed=201 rho12=0.401)**  
**D-Galacturonic Acid (C)**



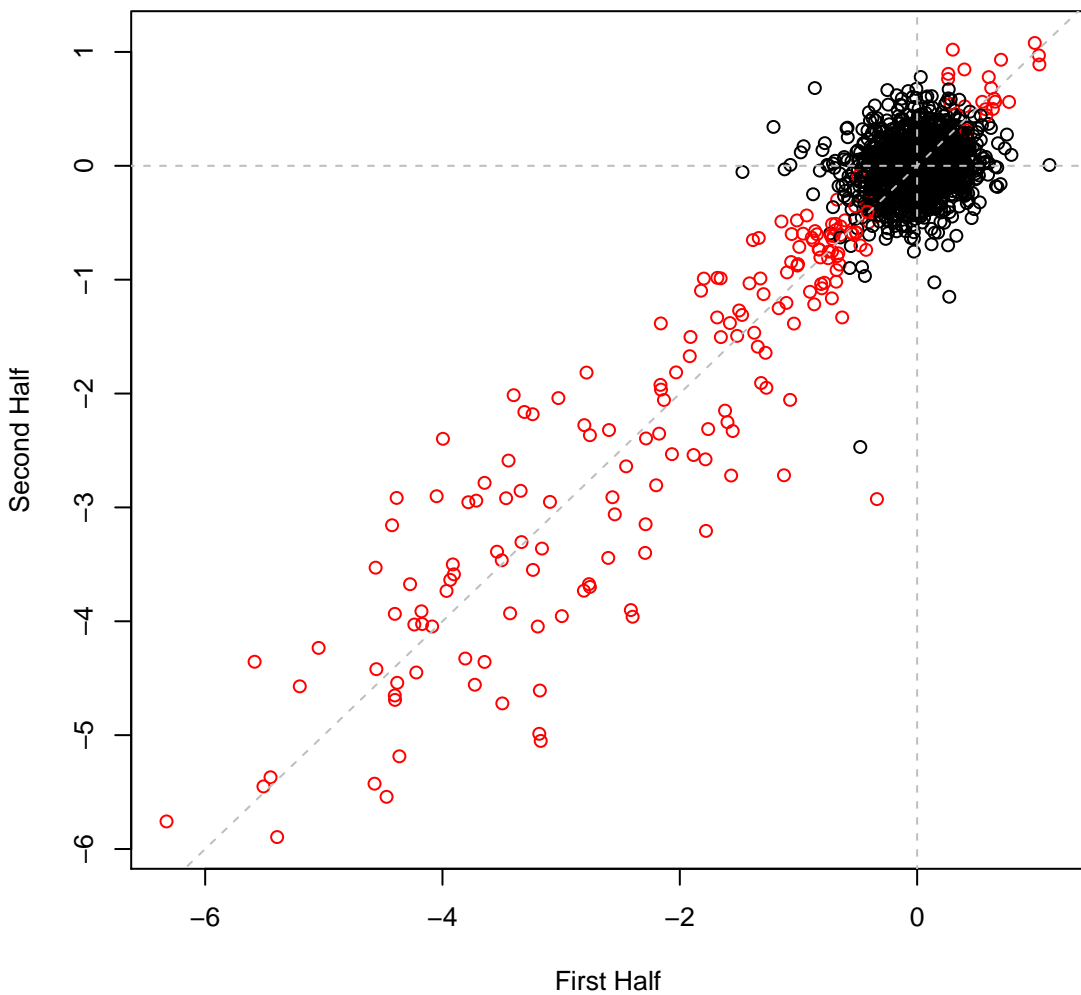
**Keio set1IT046 #46 (gMed=189 rho12=0.375)**  
**D-Galacturonic Acid (C)**



**Keio set1IT047 #47 (gMed=173 rho12=0.323)**  
**Glycerol (C)**

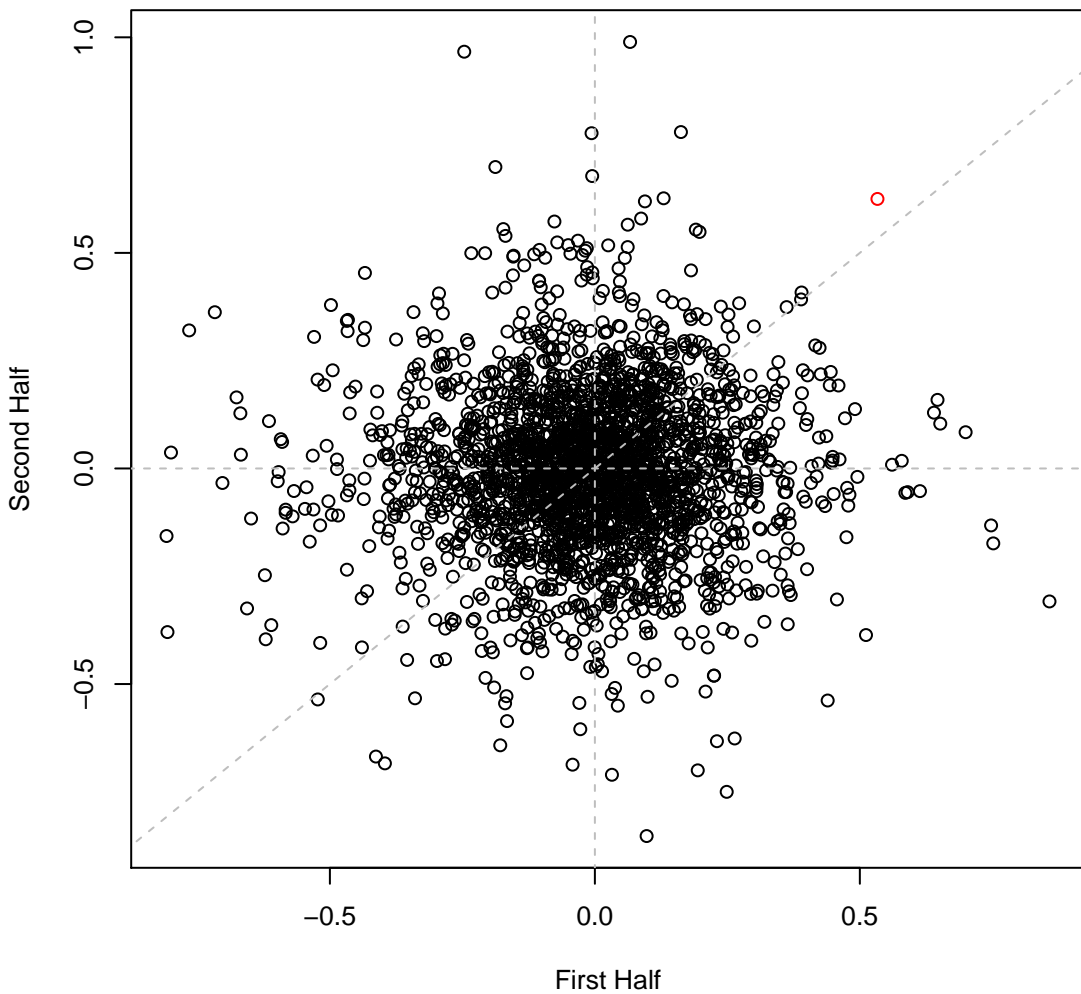


**Keio set1IT048 #48 (gMed=189 rho12=0.318)**  
**Glycerol (C)**



Keio set1IT049 #49 (gMed=186 rho12=0.016)

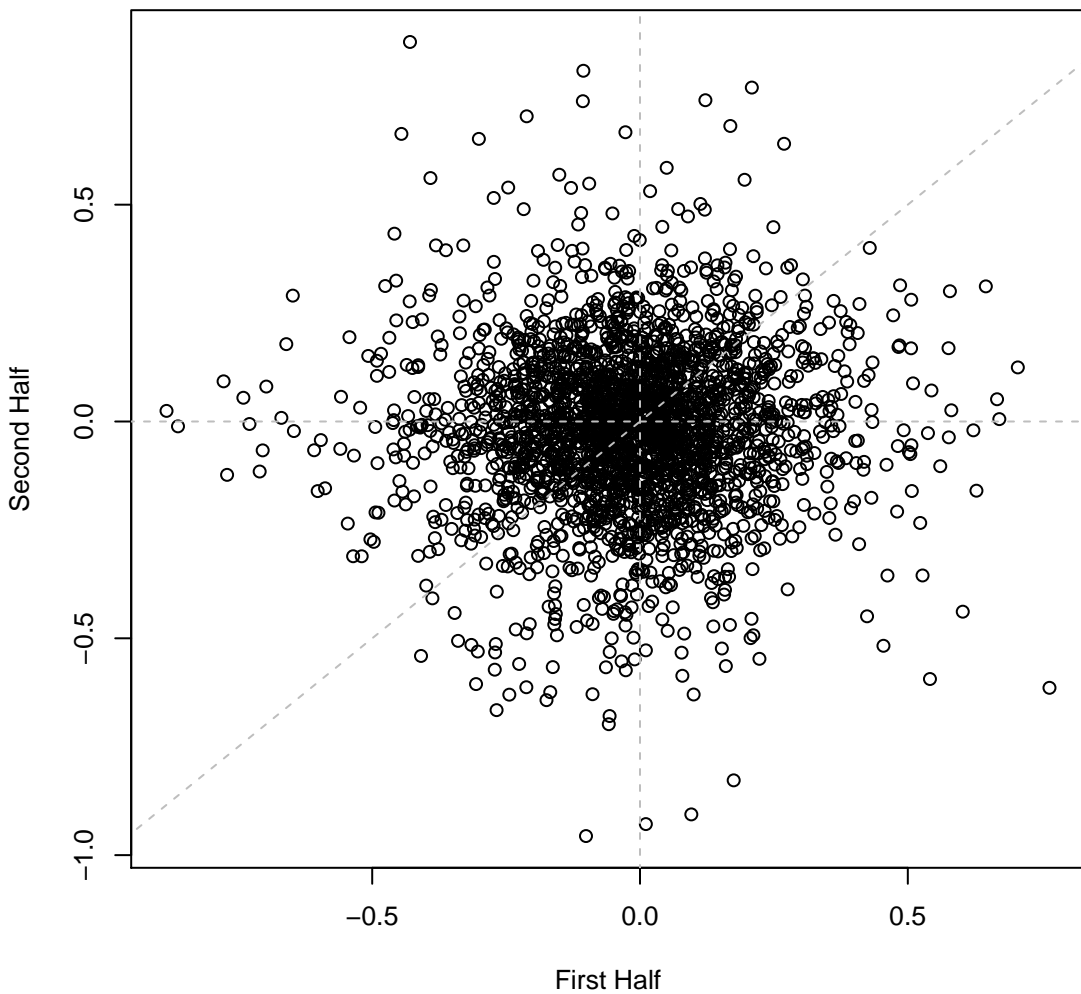
Time0



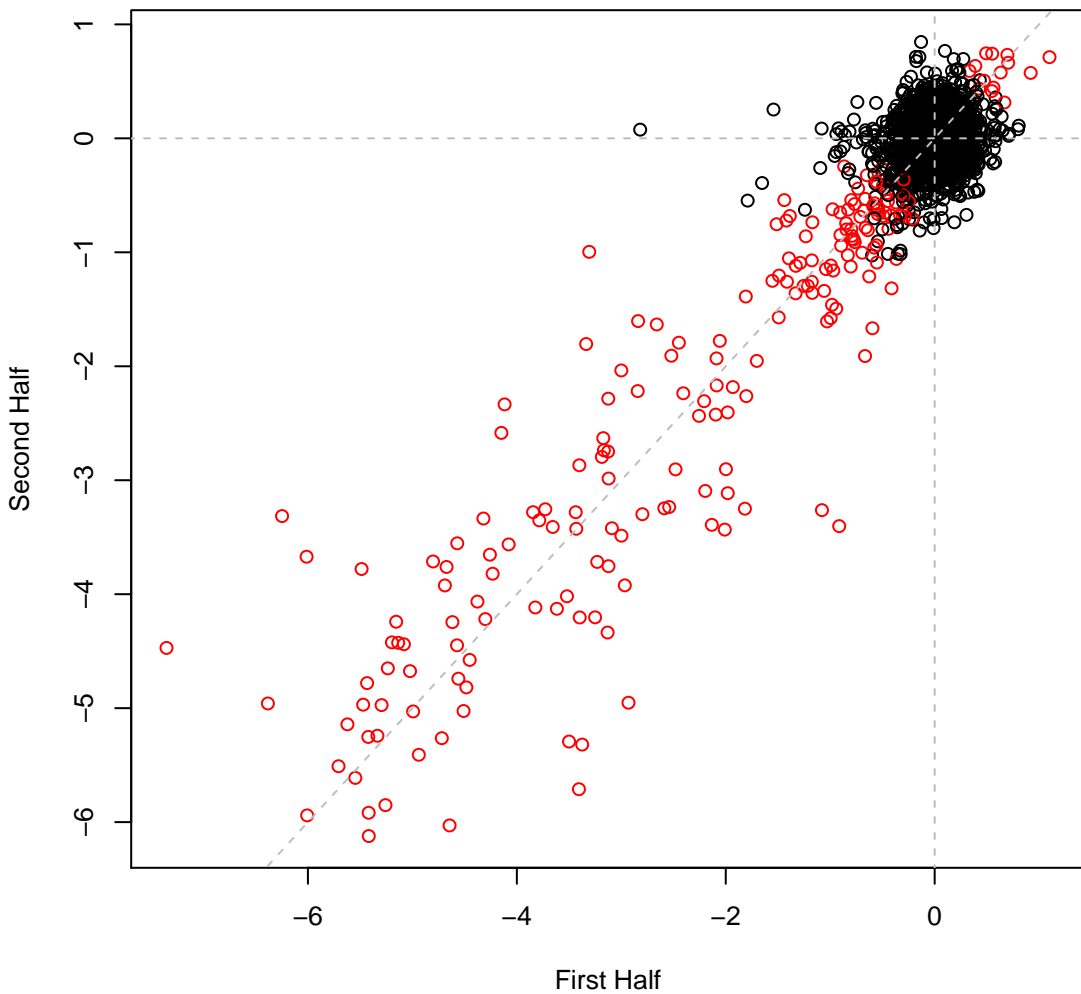


Keio set1IT050 #50 (gMed=204 rho12=0.033)

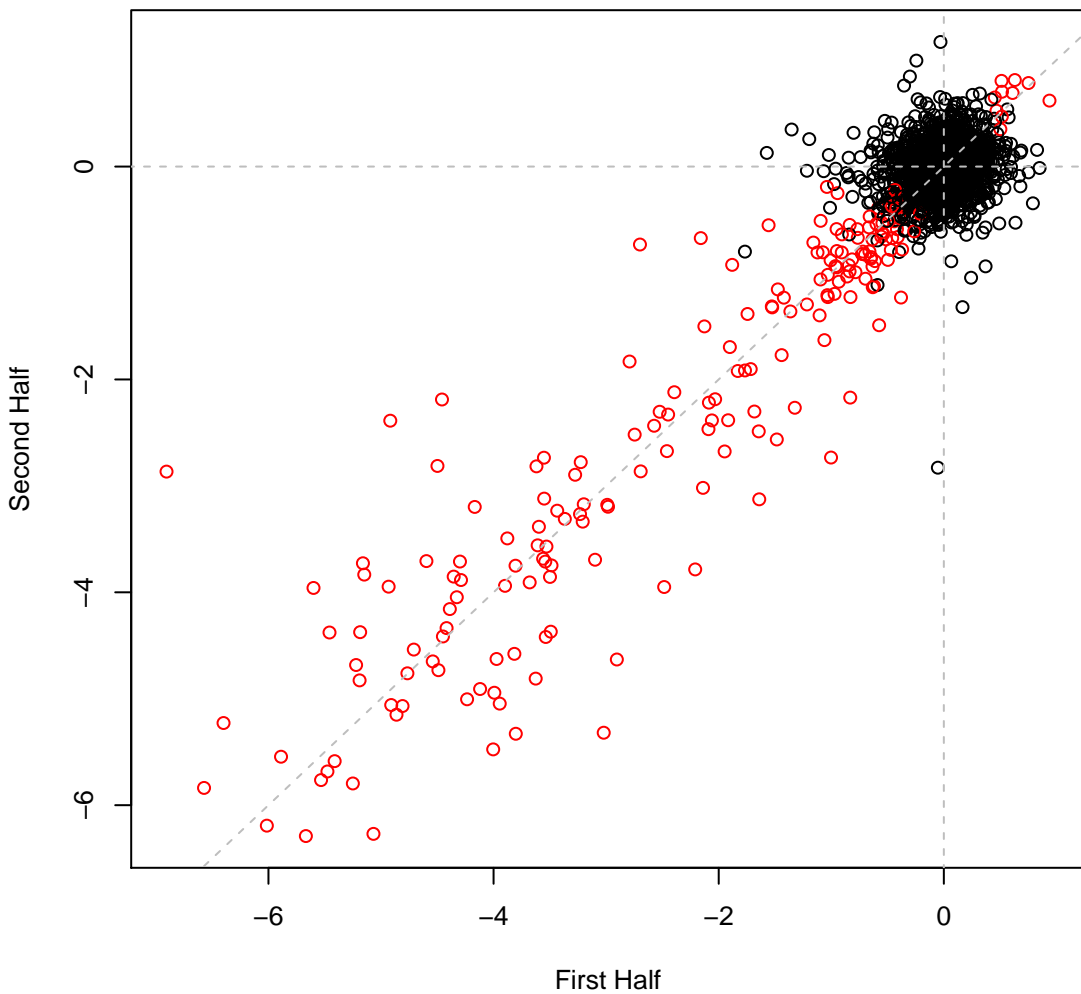
Time0



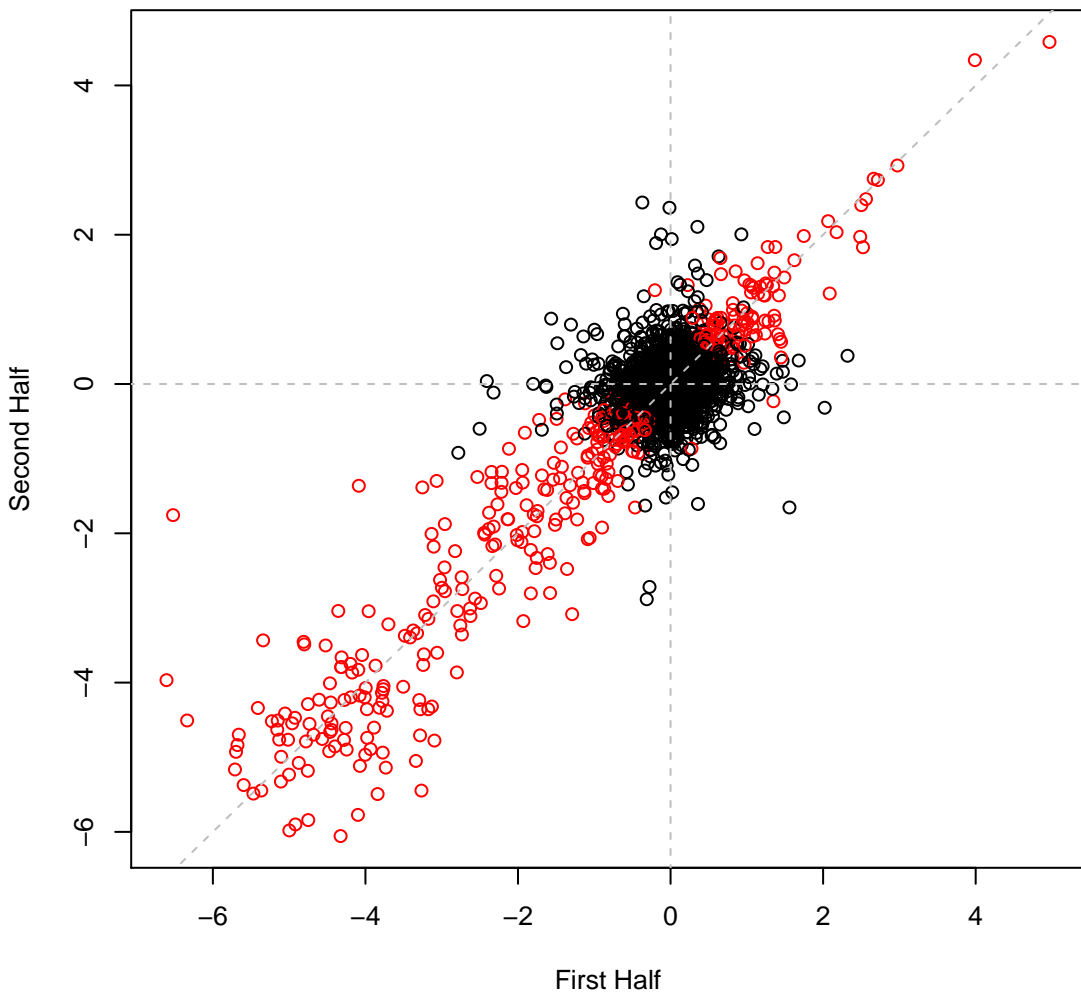
**Keio set1IT051 #51 (gMed=198 rho12=0.344)**  
**D-Sorbitol (C)**



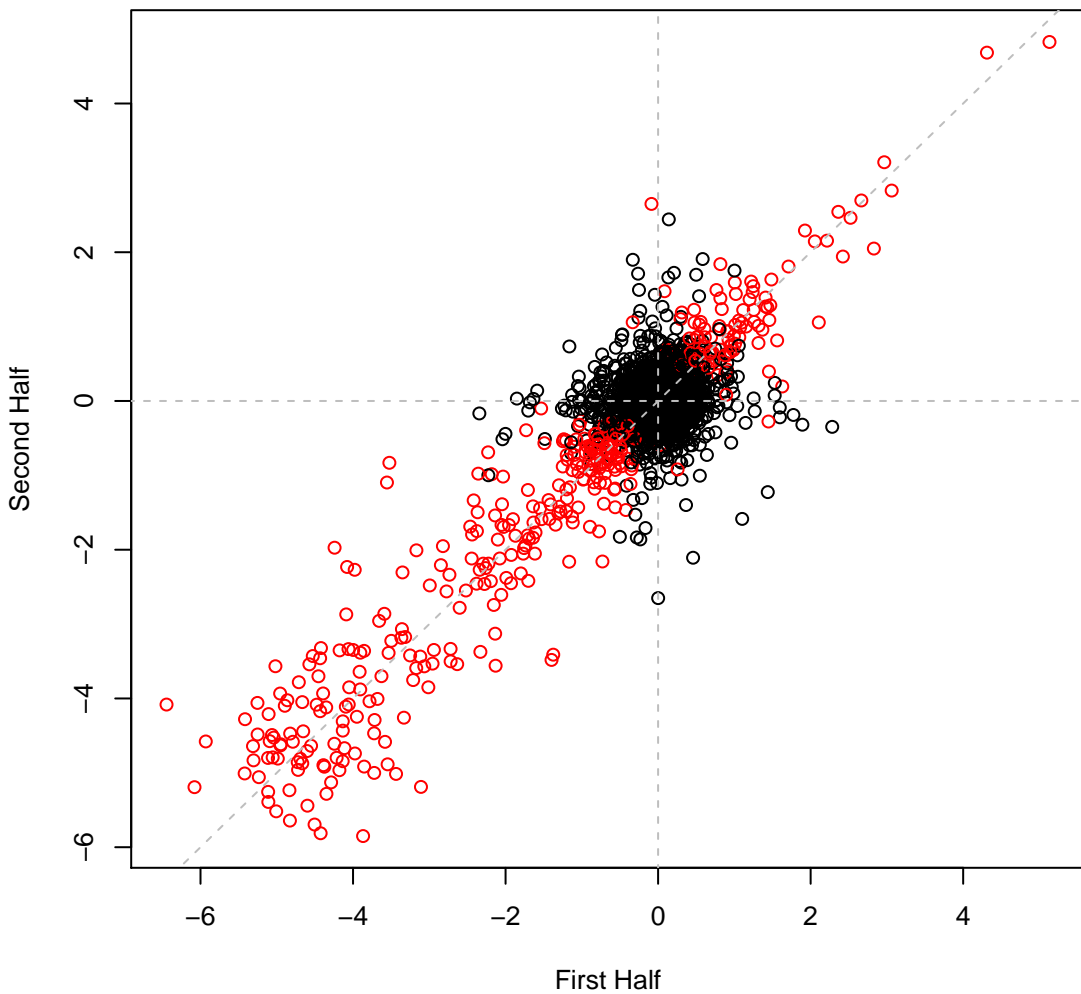
**Keio set1IT052 #52 (gMed=193 rho12=0.329)**  
**D-Sorbitol (C)**



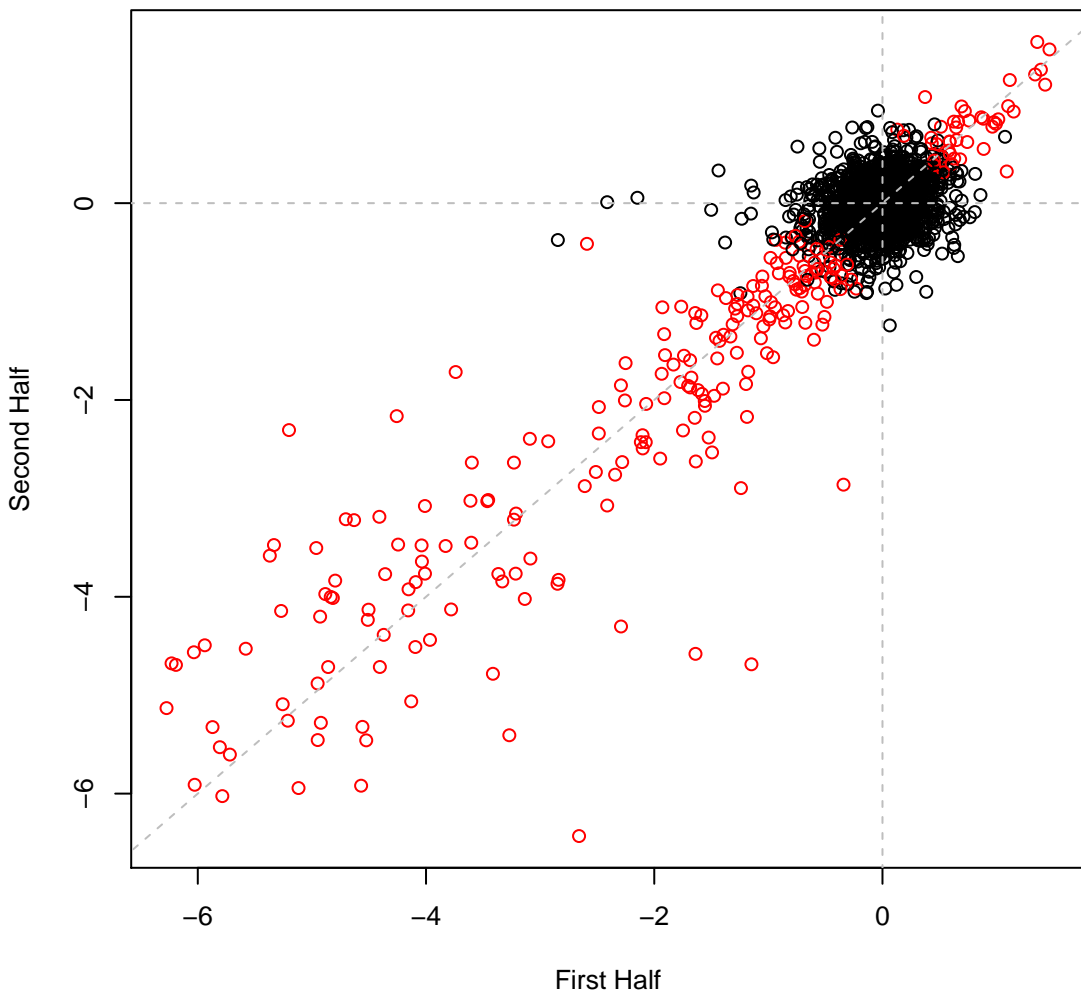
**Keio set1IT053 #53 (gMed=166 rho12=0.475)**  
**L-Malic (C)**



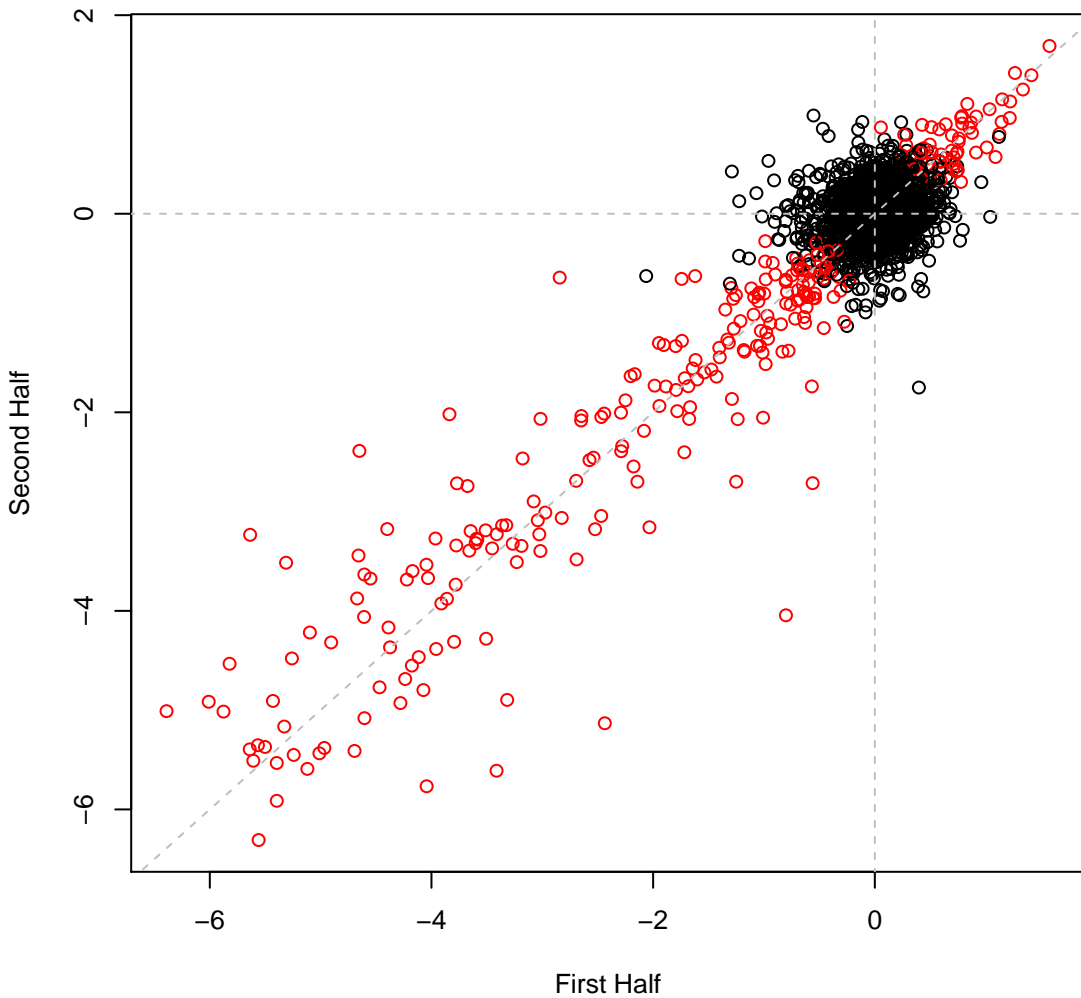
**Keio set1IT054 #54 (gMed=183 rho12=0.457)**  
**L-Malic (C)**



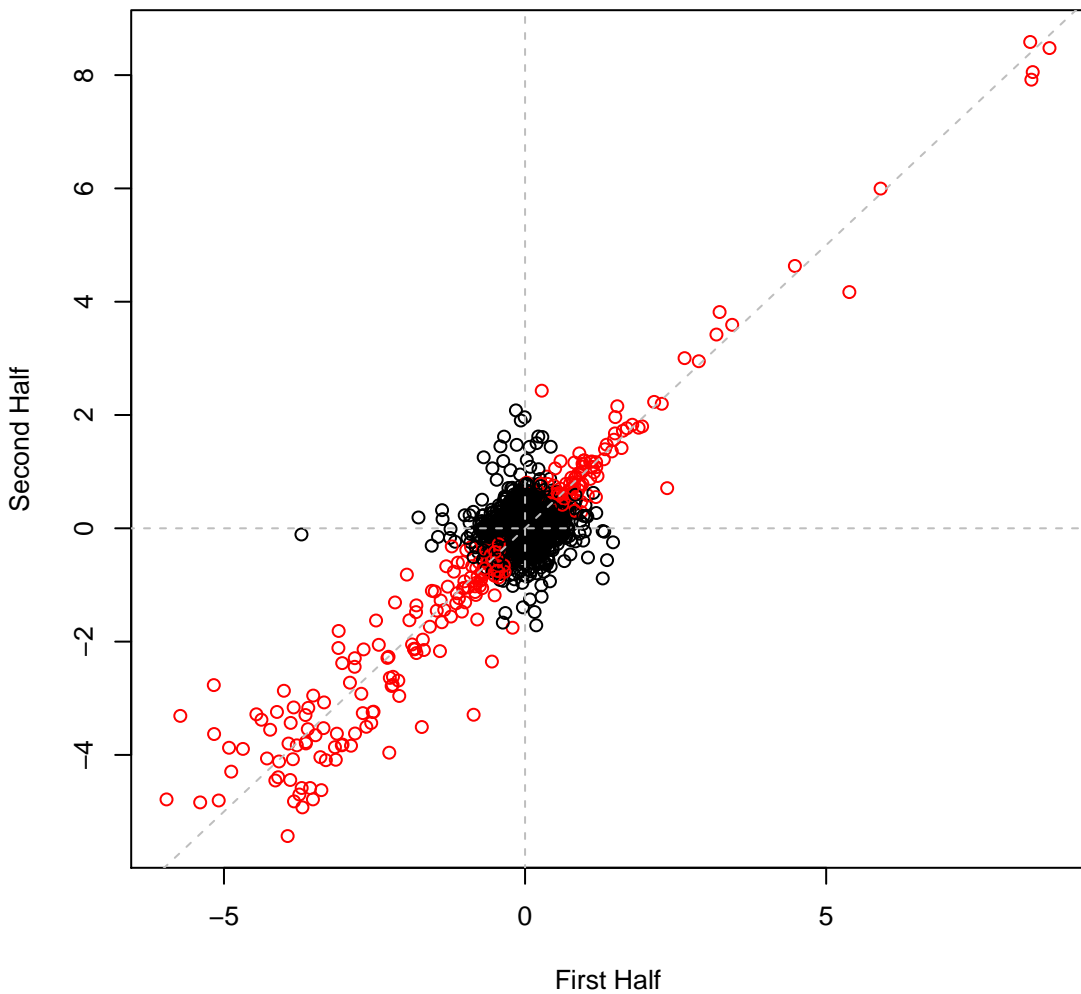
Keio set1IT055 #55 (gMed=196 rho12=0.418)  
D-Trehalose (C)



Keio set1IT056 #56 (gMed=202 rho12=0.382)  
D-Trehalose (C)

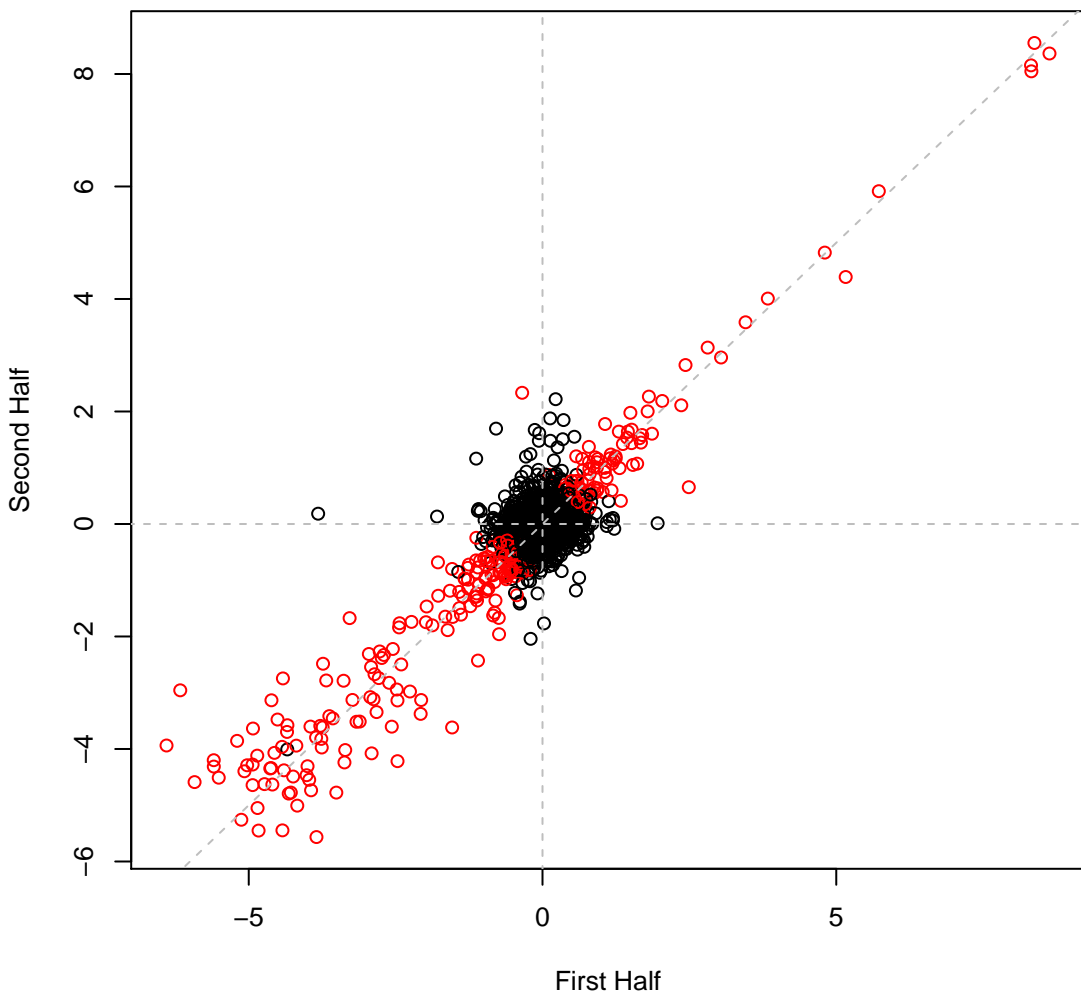


**Keio set1IT057 #57 (gMed=138 rho12=0.360)**  
**D-Serine (C)**

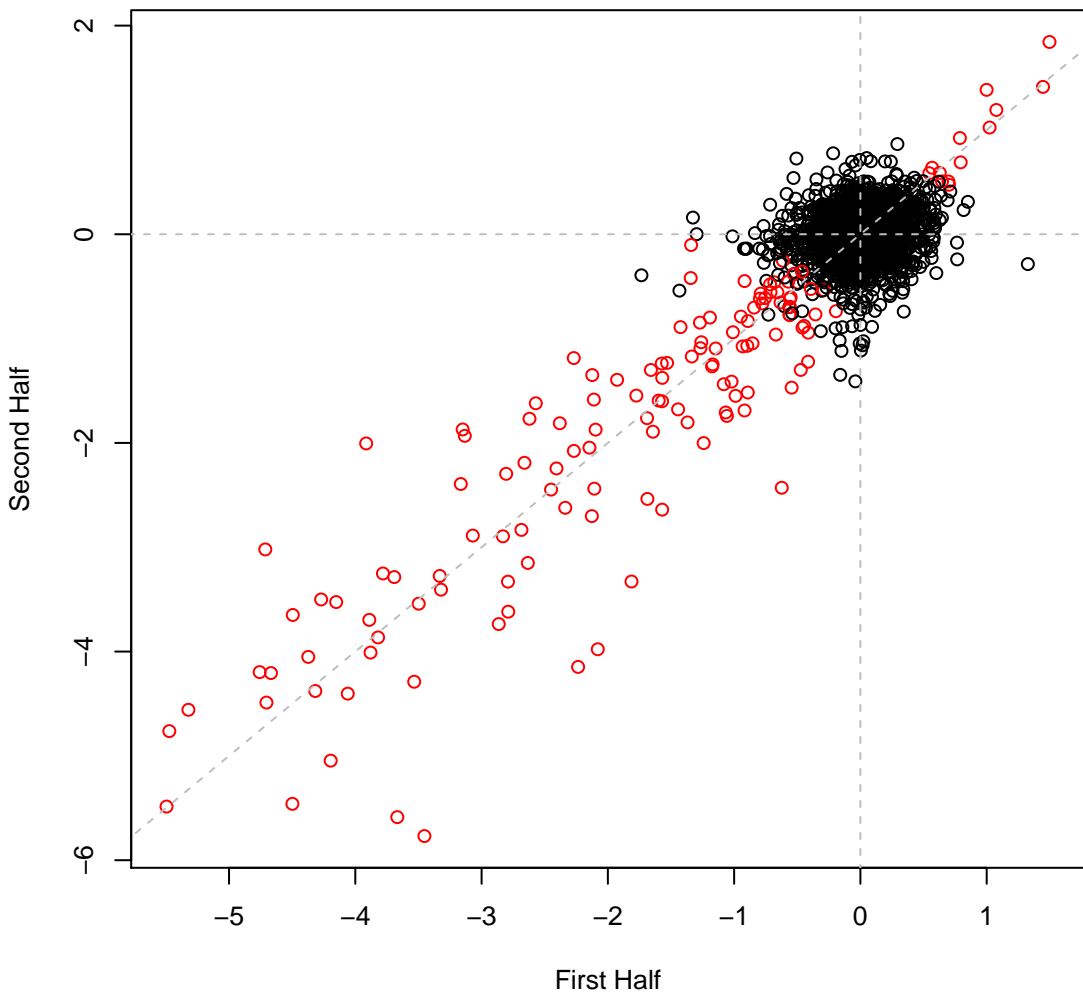




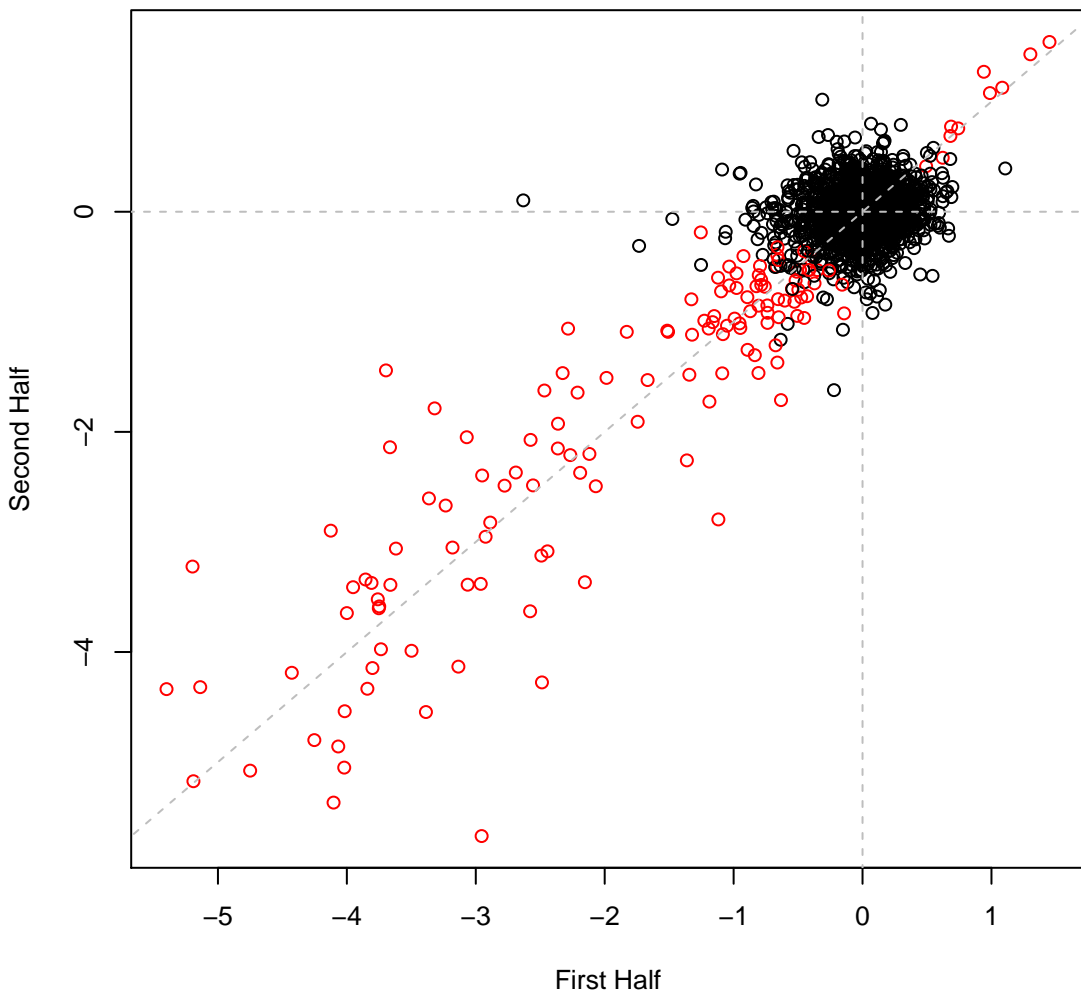
**Keio set1IT058 #58 (gMed=150 rho12=0.404)**  
**D-Serine (C)**



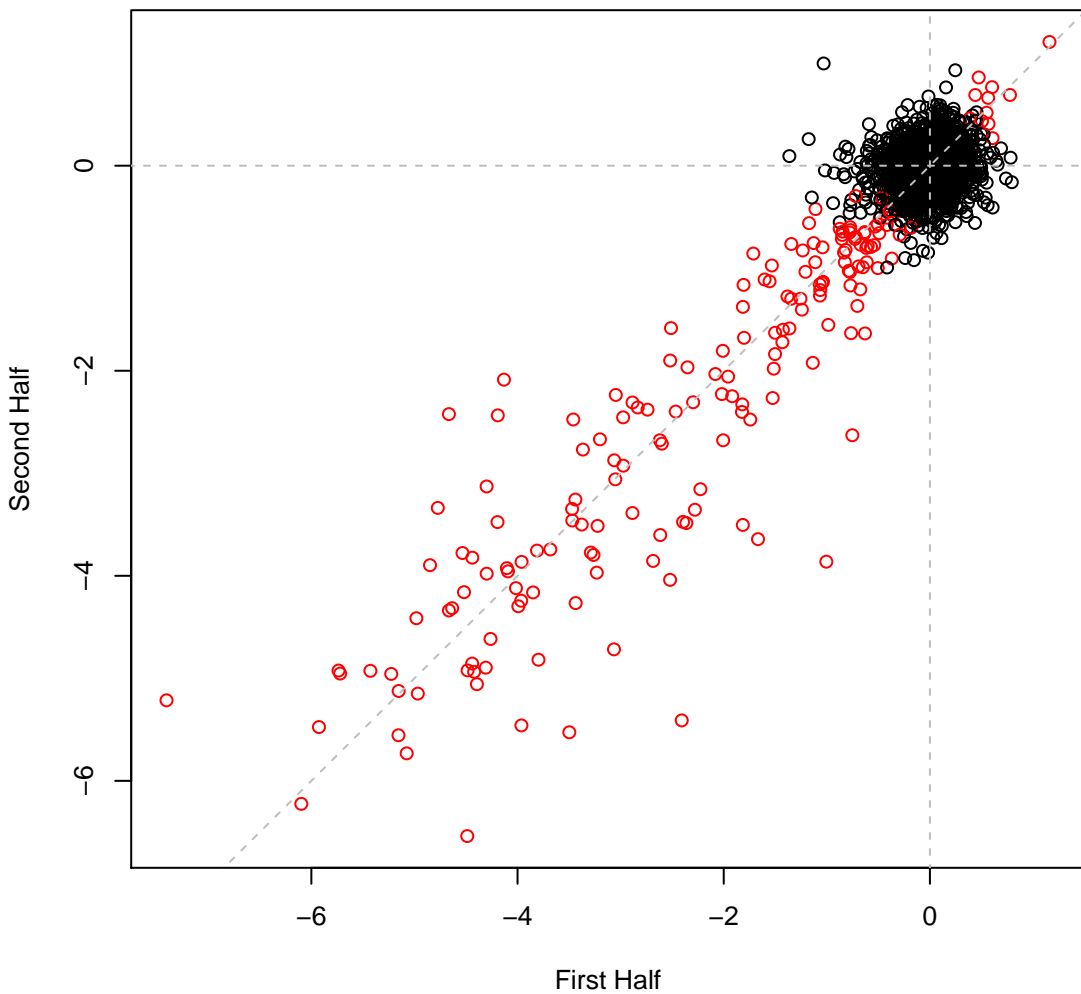
**Keio set1IT059 #59 (gMed=203 rho12=0.269)**  
**casaminos (C)**



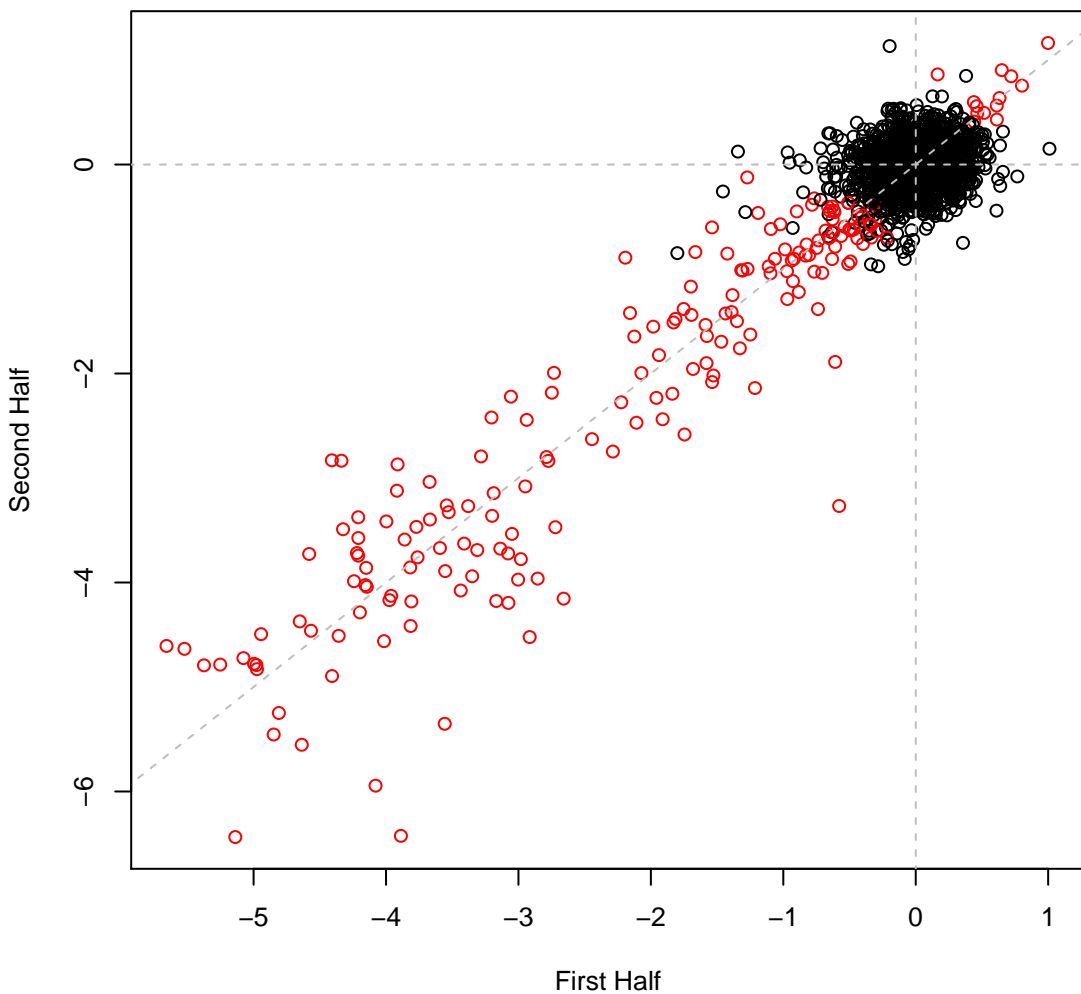
**Keio set1IT060 #60 (gMed=196 rho12=0.267)**  
**casaminos (C)**



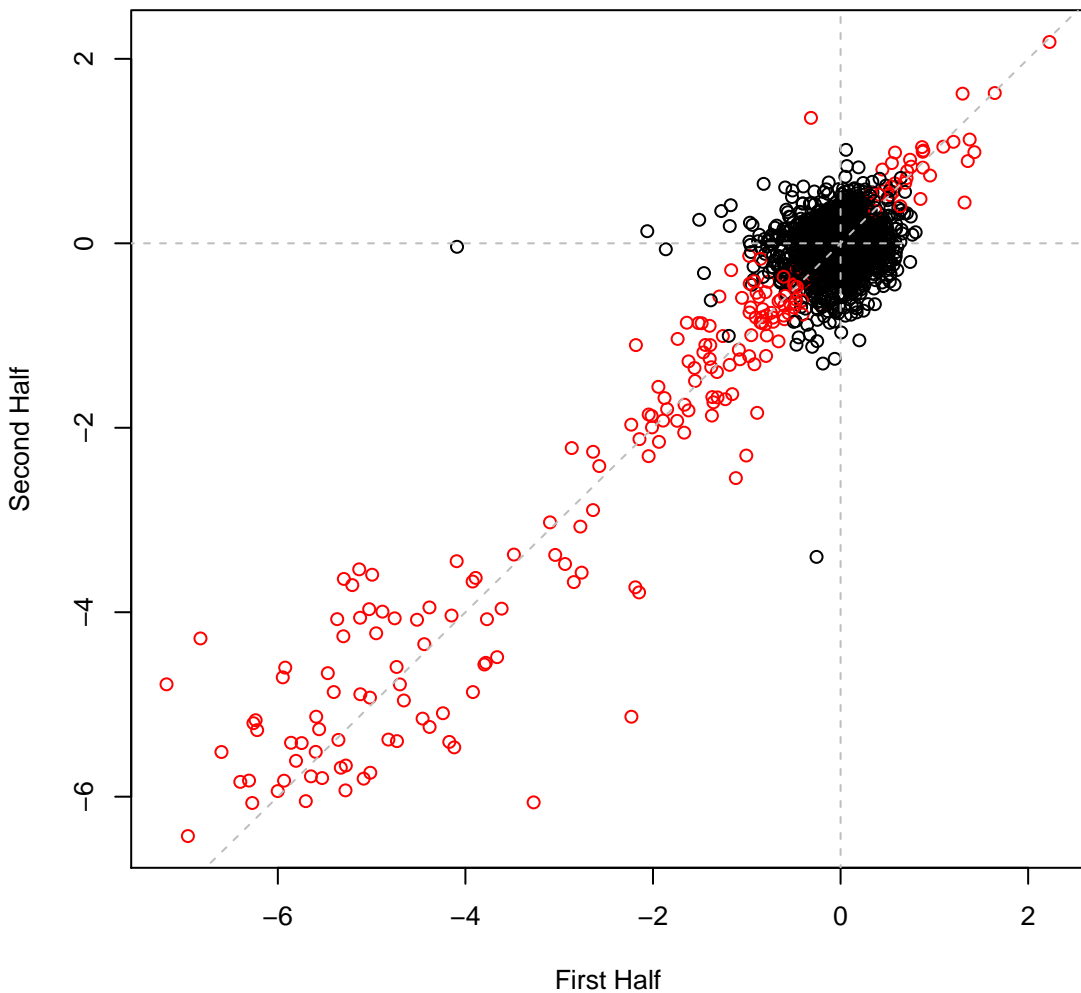
Keio set1IT061 #61 (gMed=206 rho12=0.319)  
NAG (C)



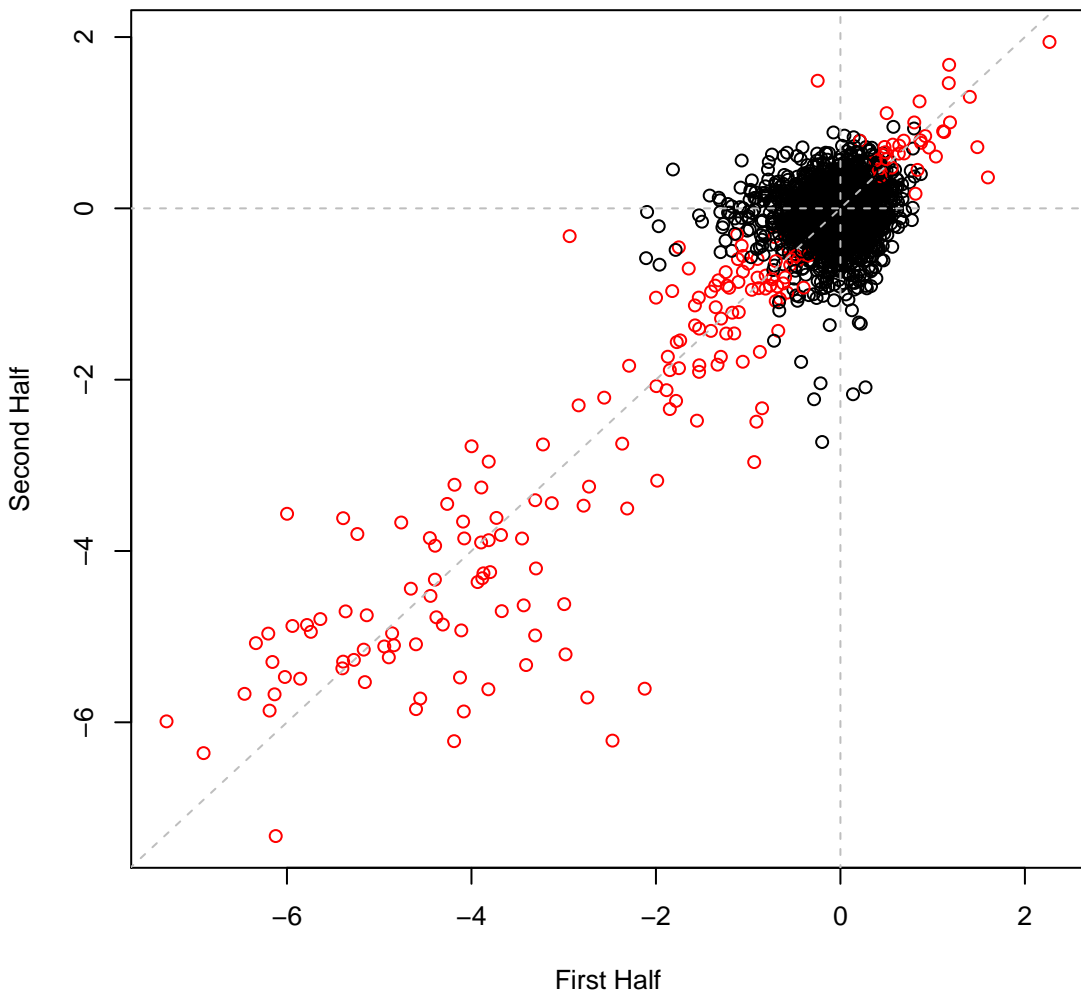
Keio set1IT062 #62 (gMed=228 rho12=0.316)  
NAG (C)



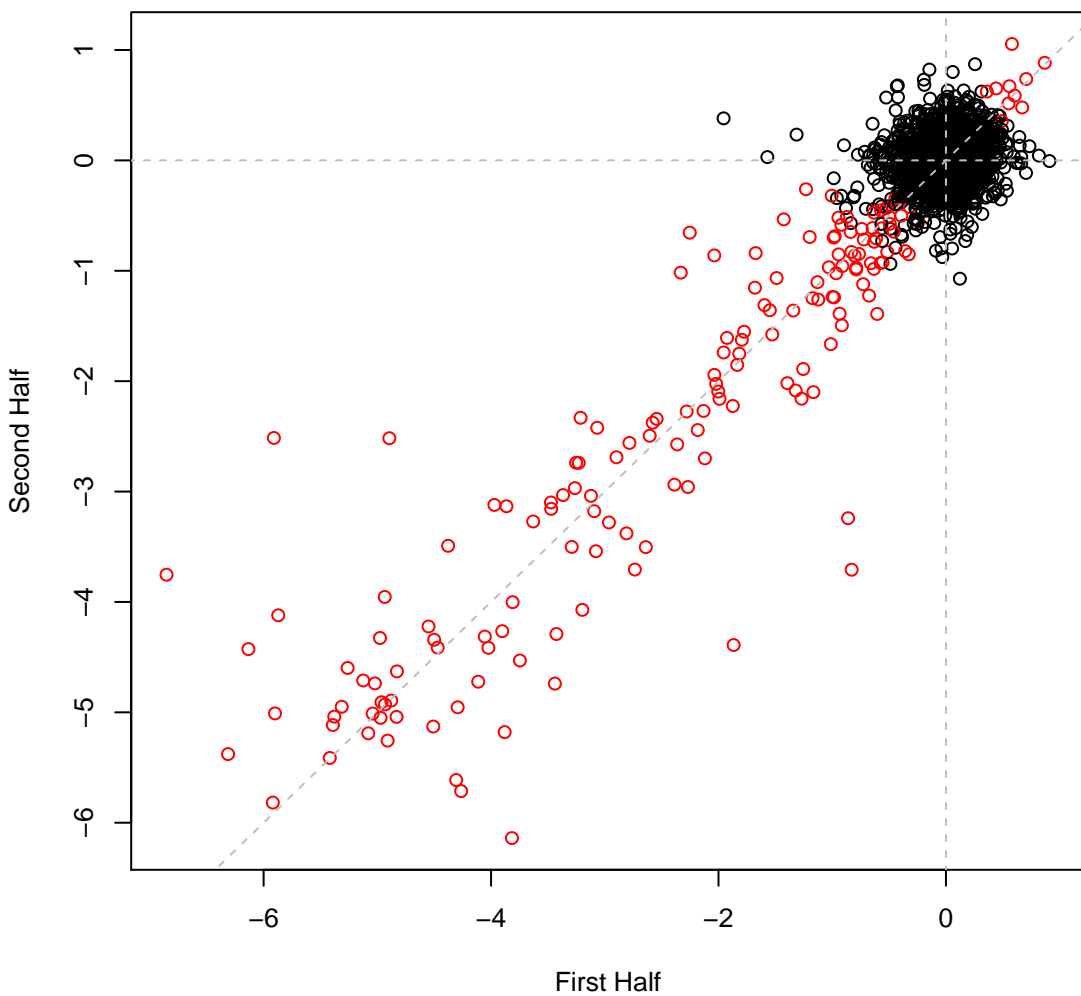
**Keio set1IT063 #63 (gMed=196 rho12=0.336)**  
**D-Glucosamine Hydrochloride (C)**



**Keio set1IT064 #64 (gMed=181 rho12=0.317)**  
**D-Glucosamine Hydrochloride (C)**

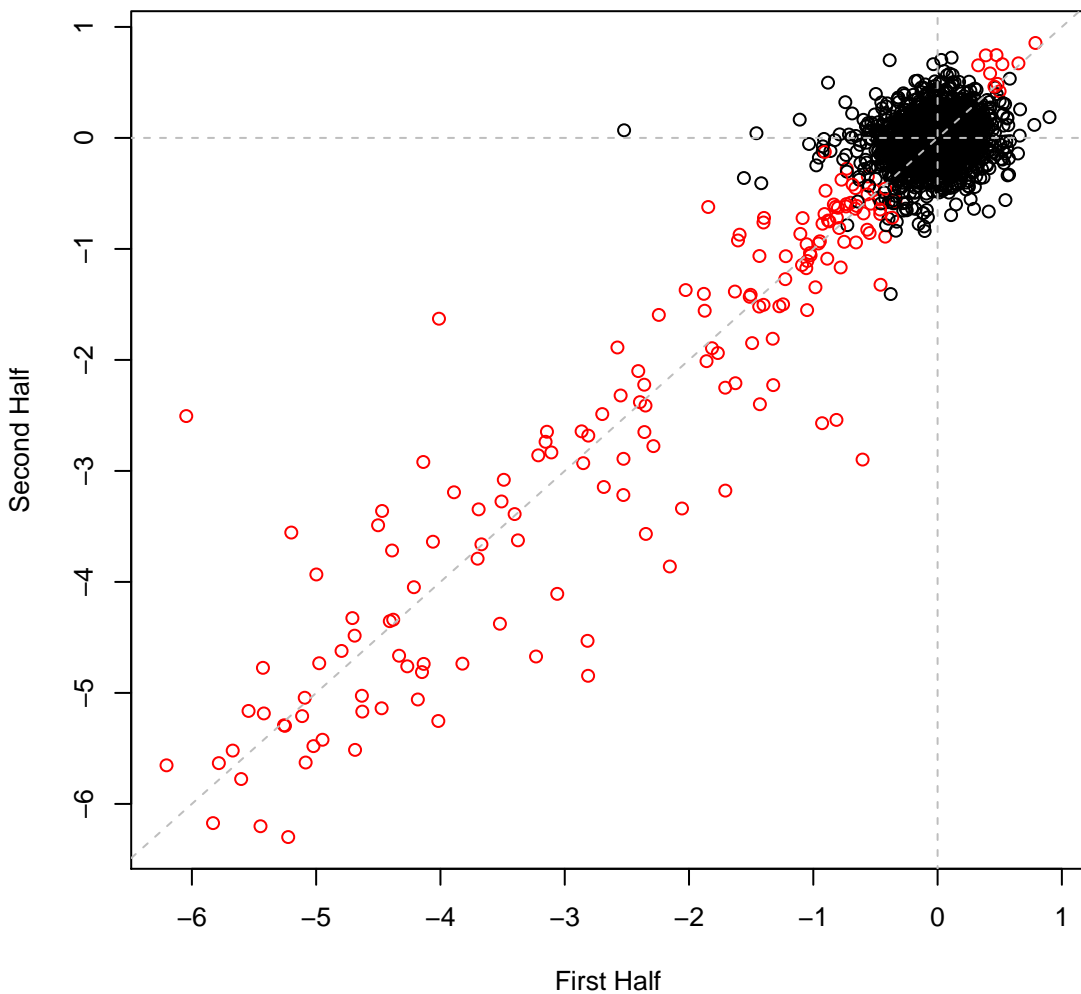


**Keio set1IT065 #65 (gMed=183 rho12=0.283)**  
**D-Mannose (C)**

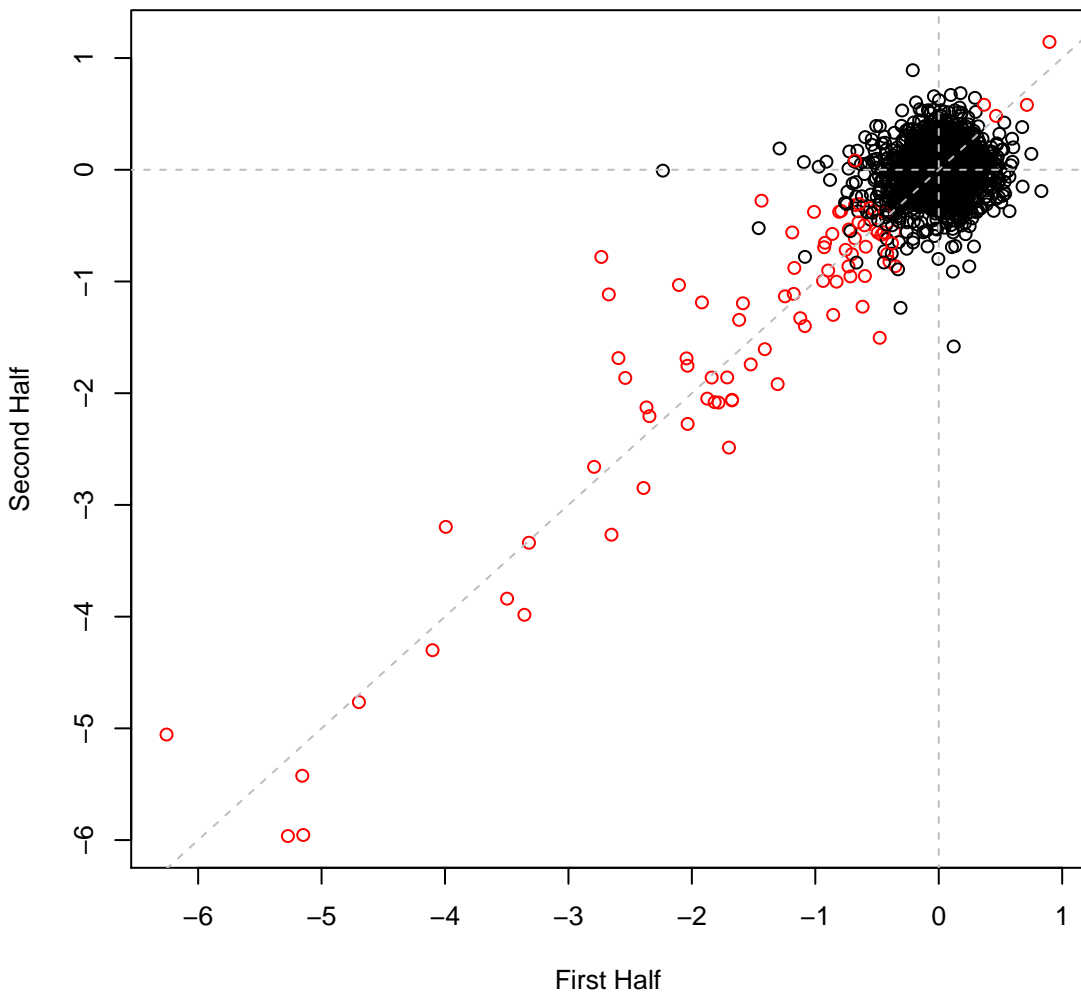




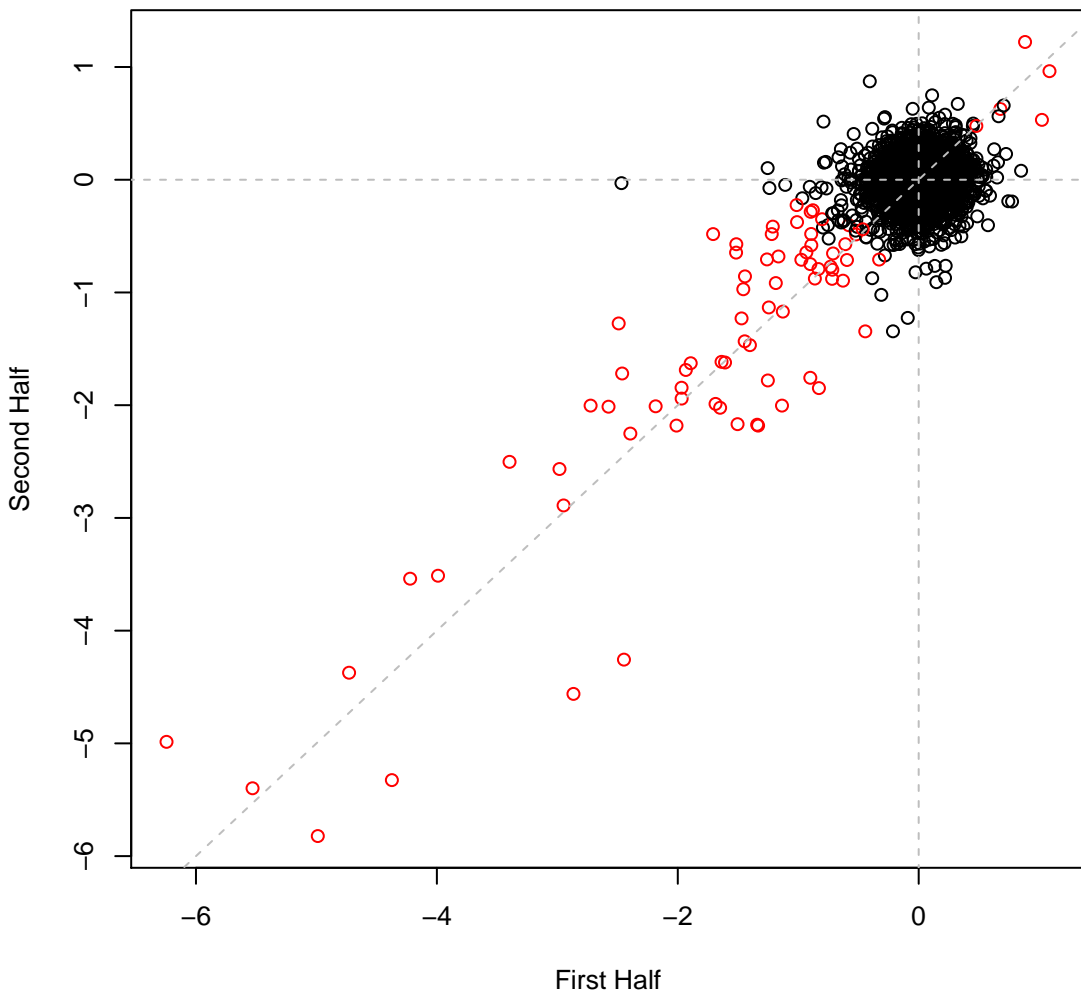
**Keio set1IT066 #66 (gMed=200 rho12=0.313)**  
**D-Mannose (C)**



**Keio set1IT067 #67 (gMed=189 rho12=0.174)**  
**D-Galacturonic Acid (C) MOPS**

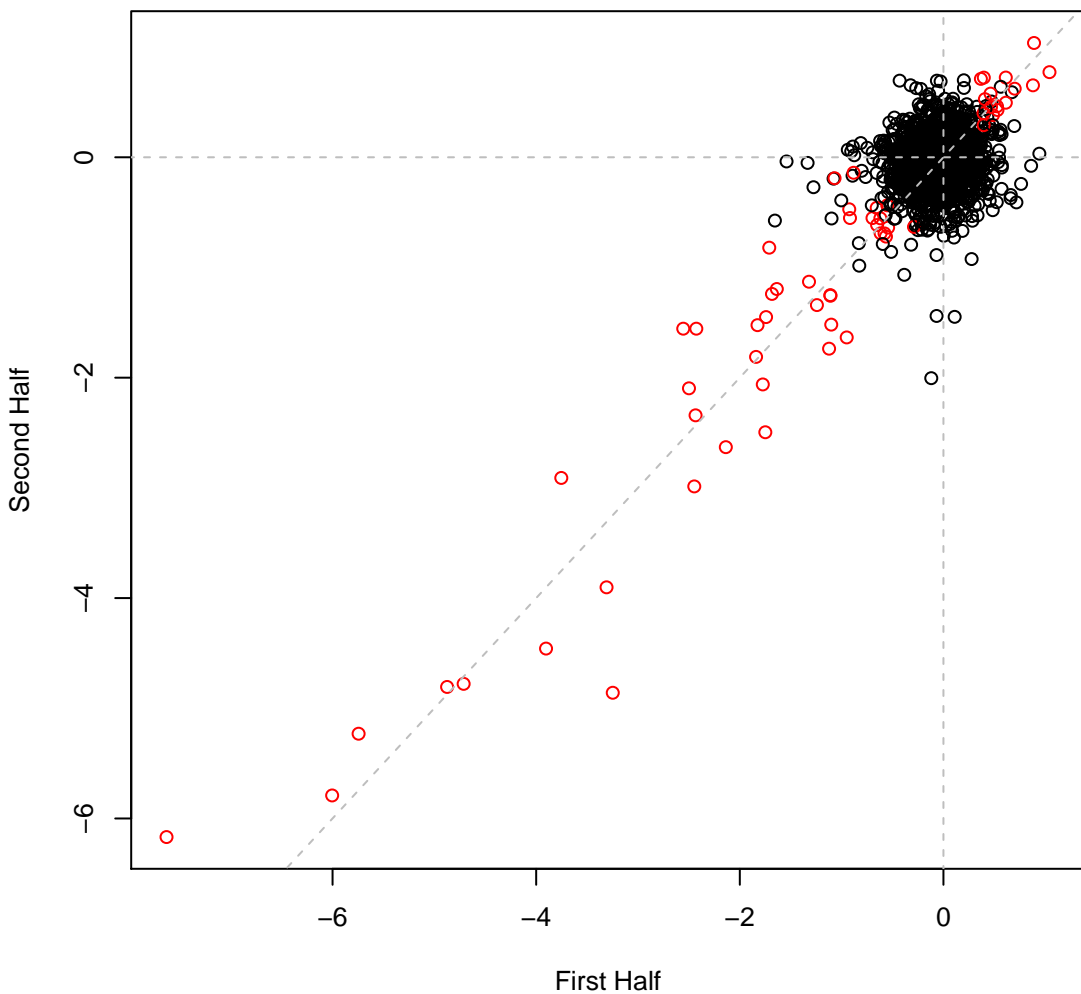


**Keio set1IT068 #68 (gMed=175 rho12=0.163)**  
**D-Galacturonic Acid (C) MOPS**

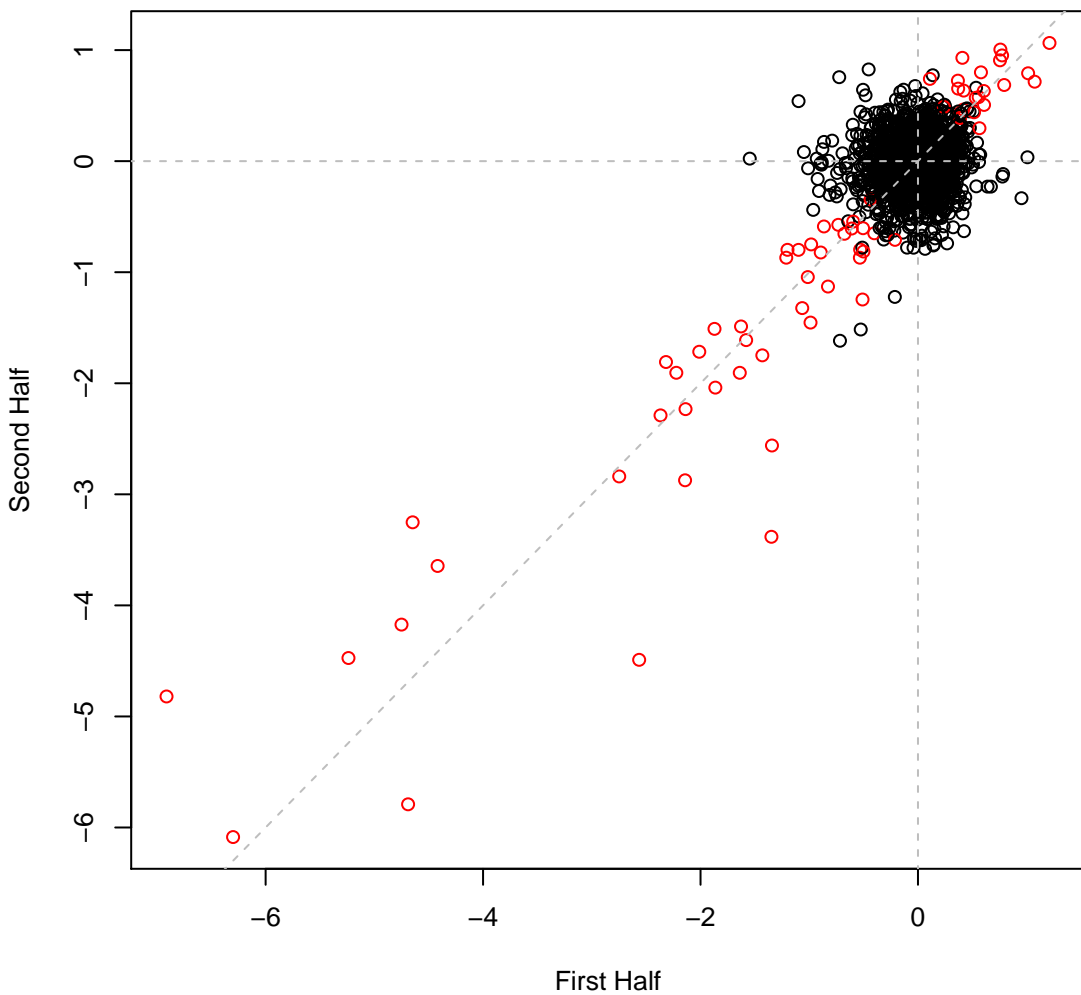


Keio set1IT069 #69 (gMed=163 rho12=0.126)

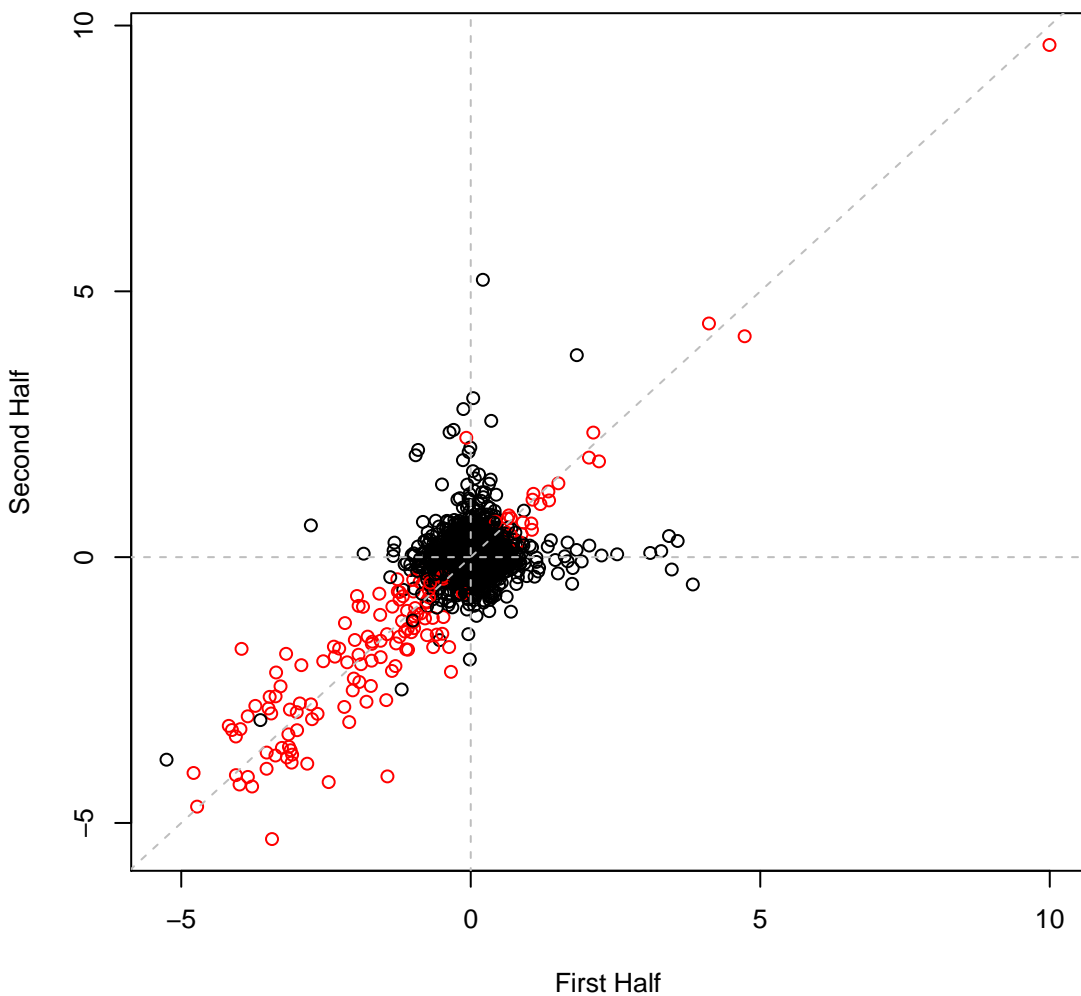
D-Glucose (C) MOPS



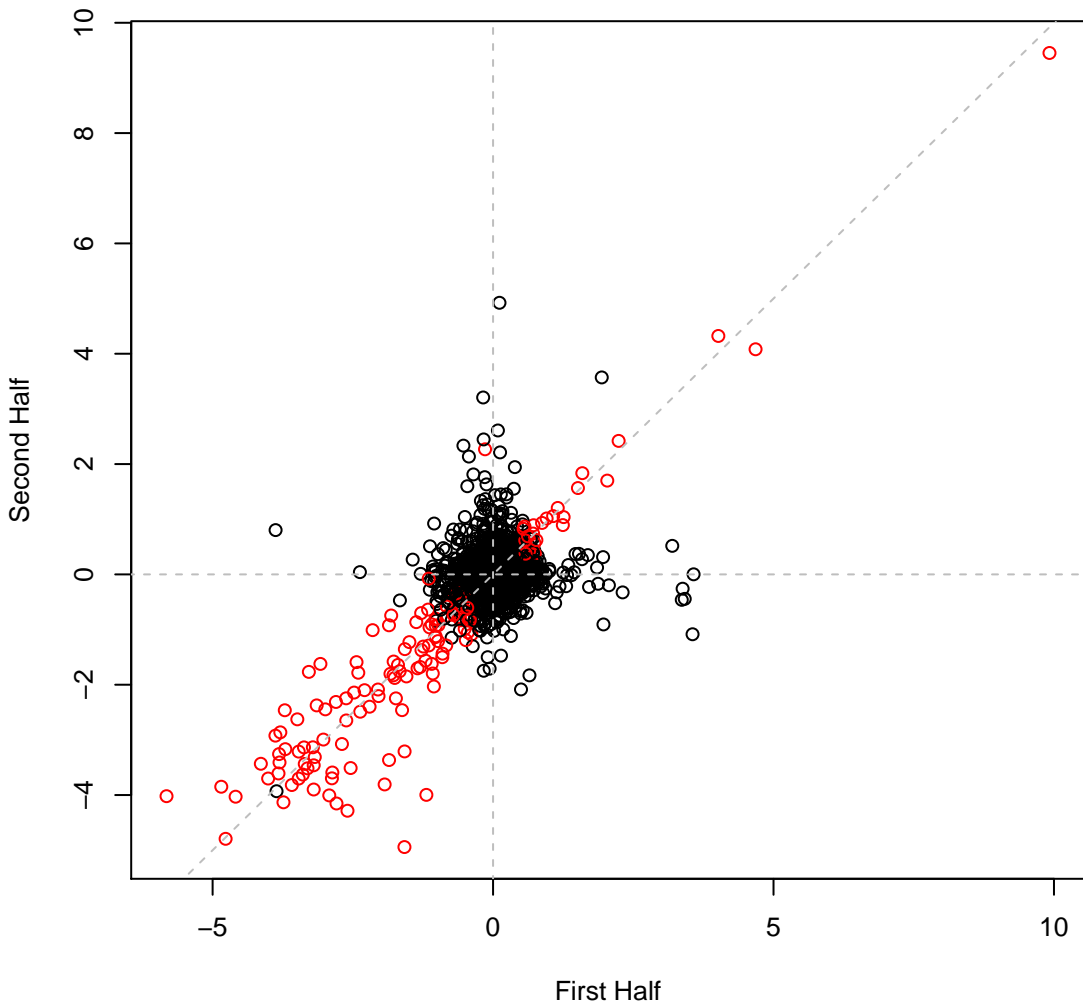
**Keio set1IT070 #70 (gMed=172 rho12=0.141)**  
**D-Glucose (C) MOPS**



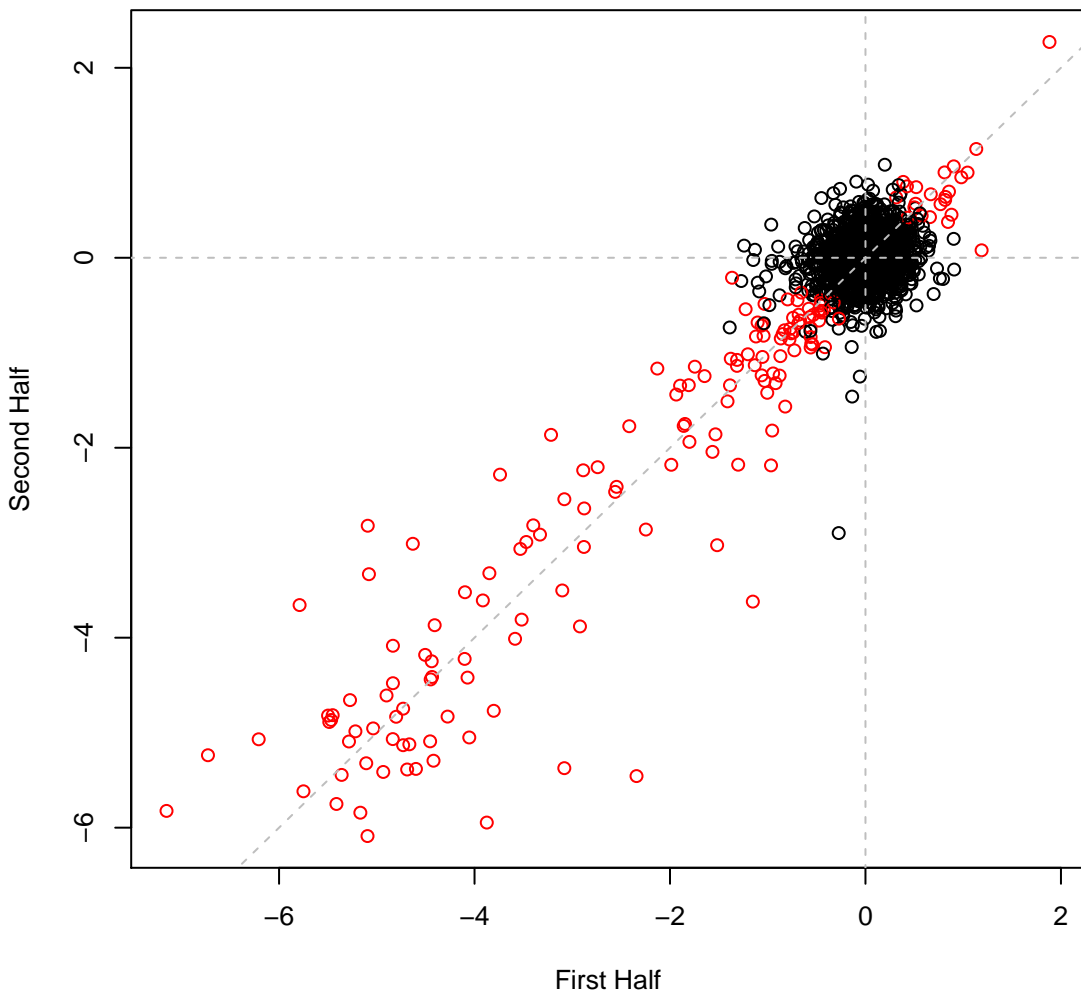
**Keio set1IT071 #71 (gMed=99 rho12=0.235)**  
**L-Arginine (N)**



**Keio set1IT072 #72 (gMed=106 rho12=0.221)**  
**L-Arginine (N)**

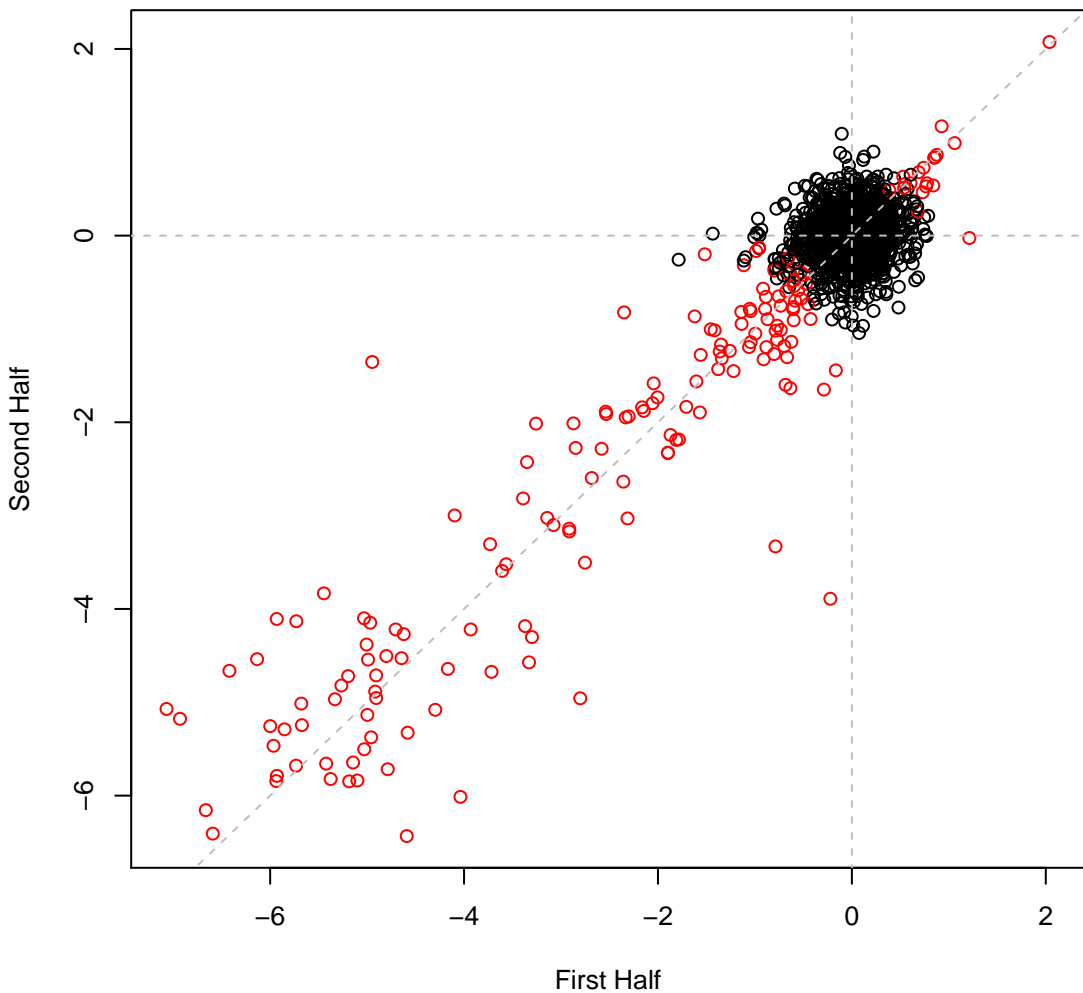


**Keio set1IT073 #73 (gMed=169 rho12=0.288)**  
**L-Aspartic Acid (N)**

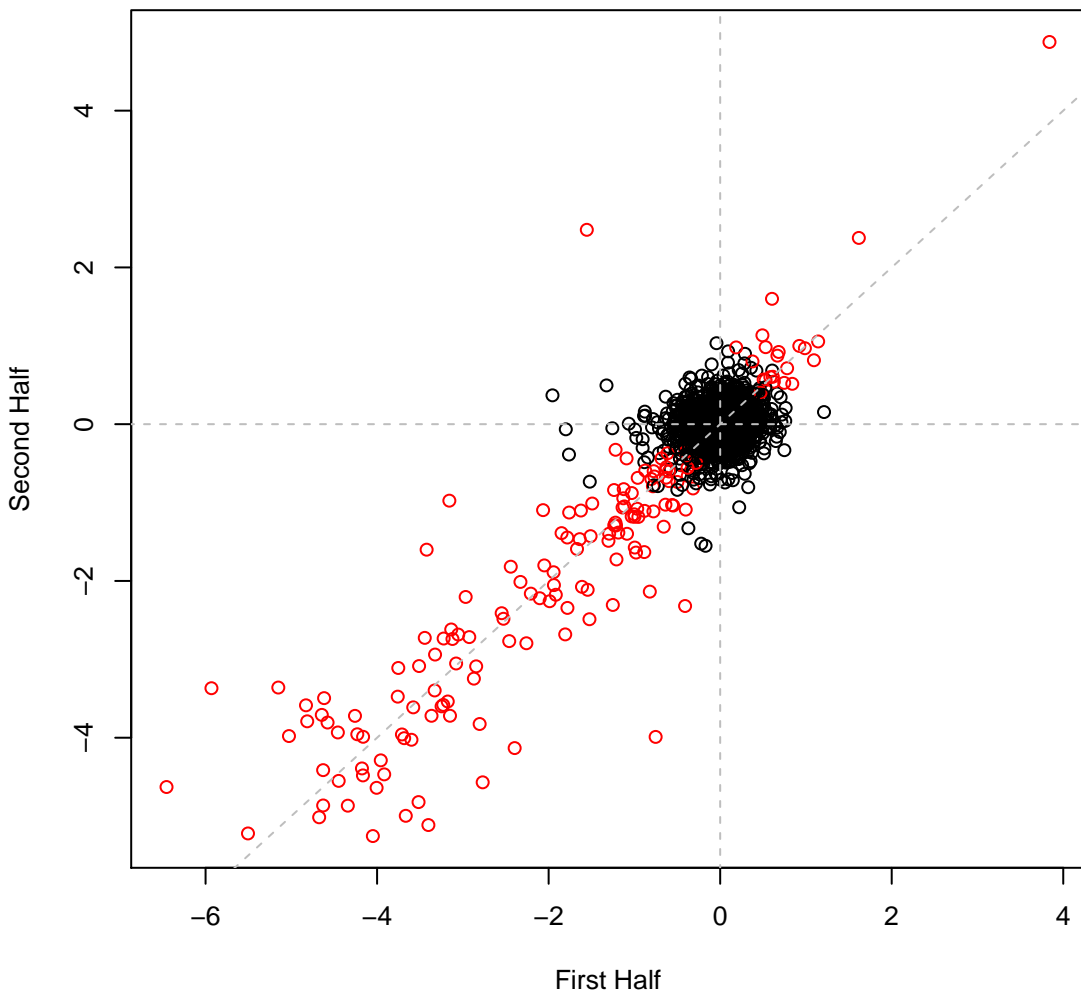




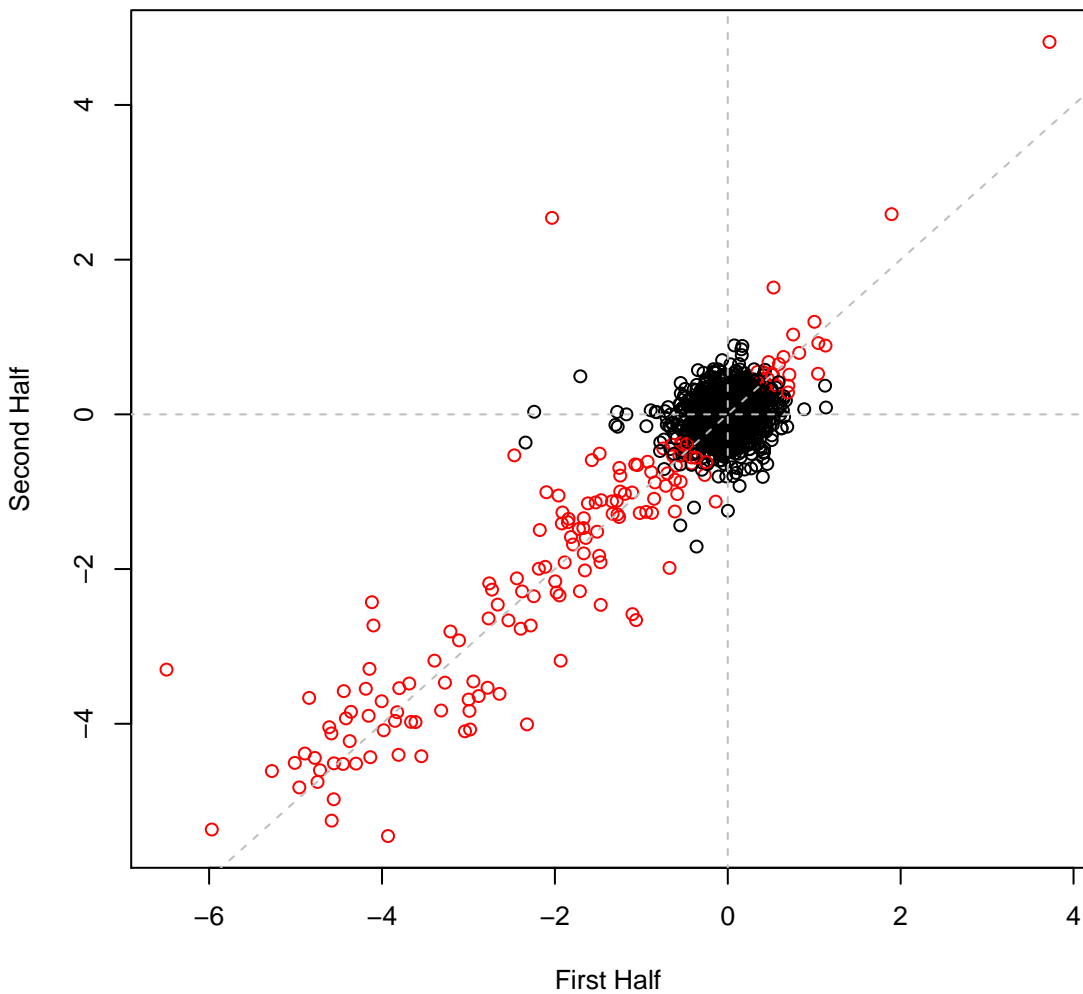
**Keio set1IT074 #74 (gMed=151 rho12=0.269)**  
**L-Aspartic Acid (N)**



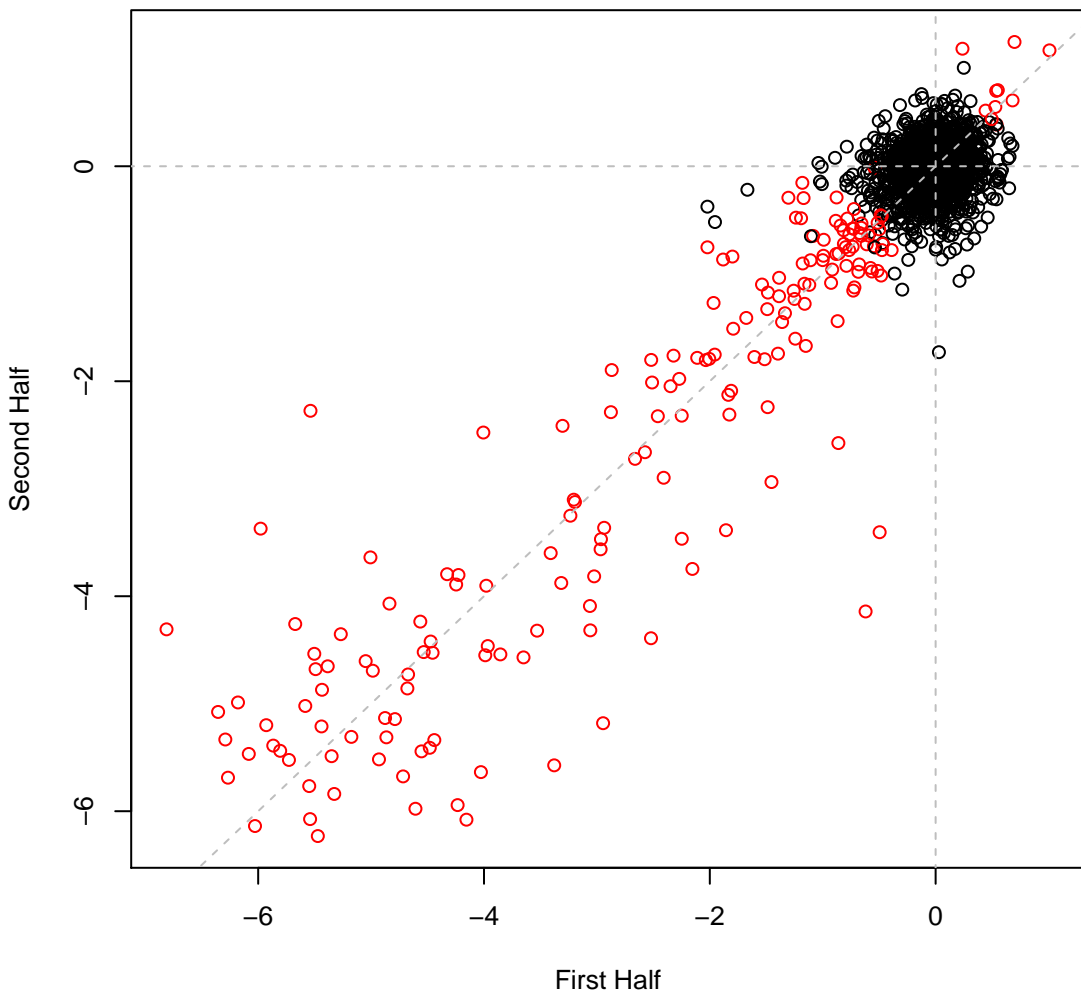
**Keio set1IT075 #75 (gMed=167 rho12=0.303)**  
**L-Serine (N)**



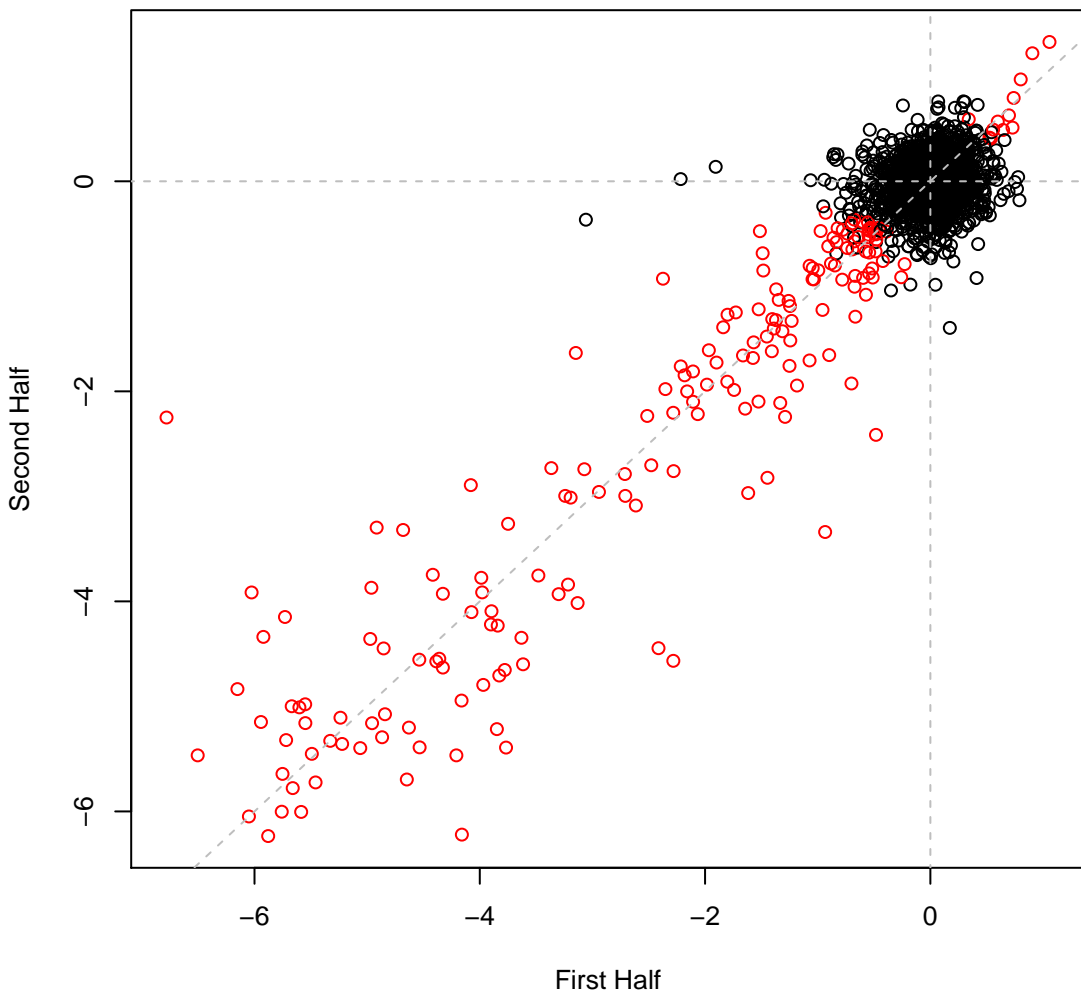
**Keio set1IT076 #76 (gMed=189 rho12=0.288)**  
**L-Serine (N)**



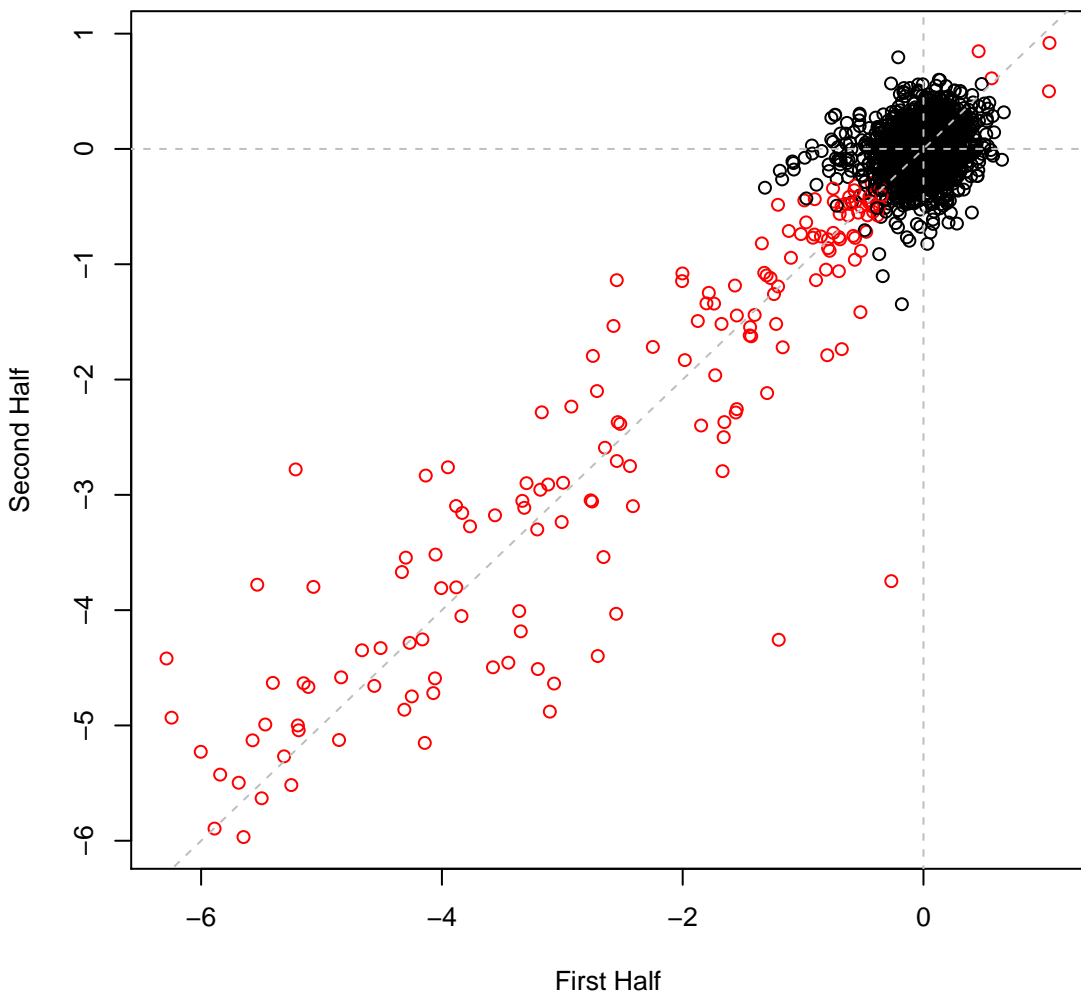
**Keio set1IT077 #77 (gMed=173 rho12=0.306)**  
**L-Asparagine (N)**



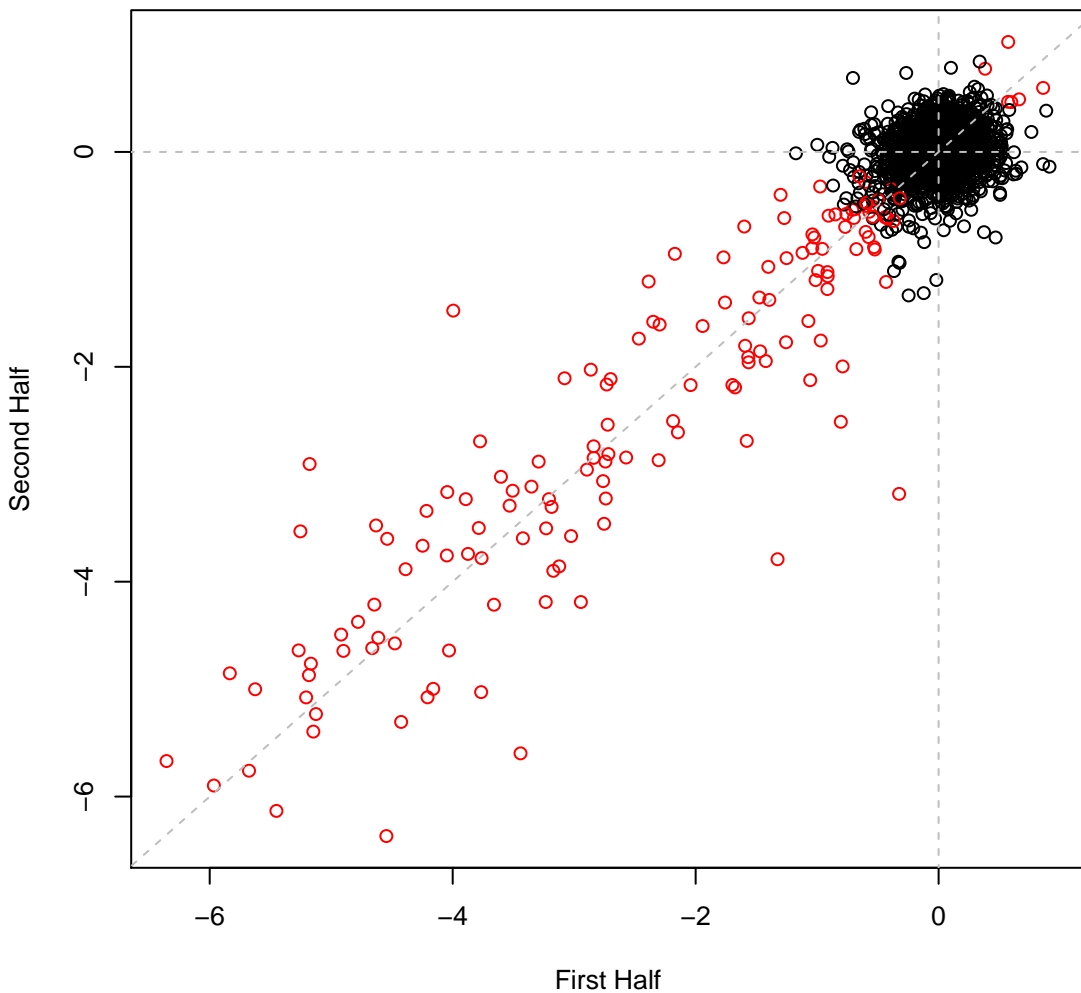
**Keio set1IT078 #78 (gMed=188 rho12=0.302)**  
**L-Asparagine (N)**



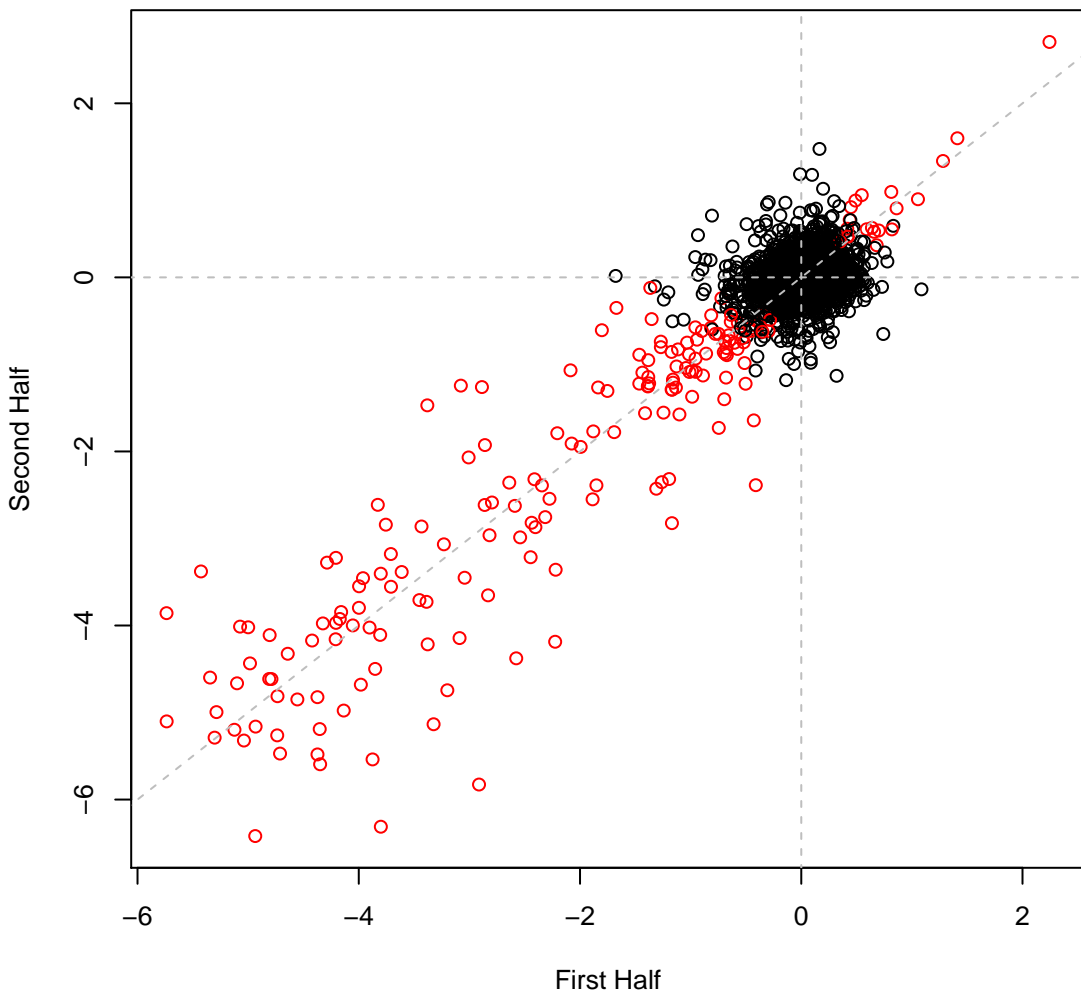
Keio set1IT079 #79 (gMed=207 rho12=0.304)  
L-Glutamine (N)



**Keio set1IT080 #80 (gMed=196 rho12=0.270)**  
**L-Glutamine (N)**

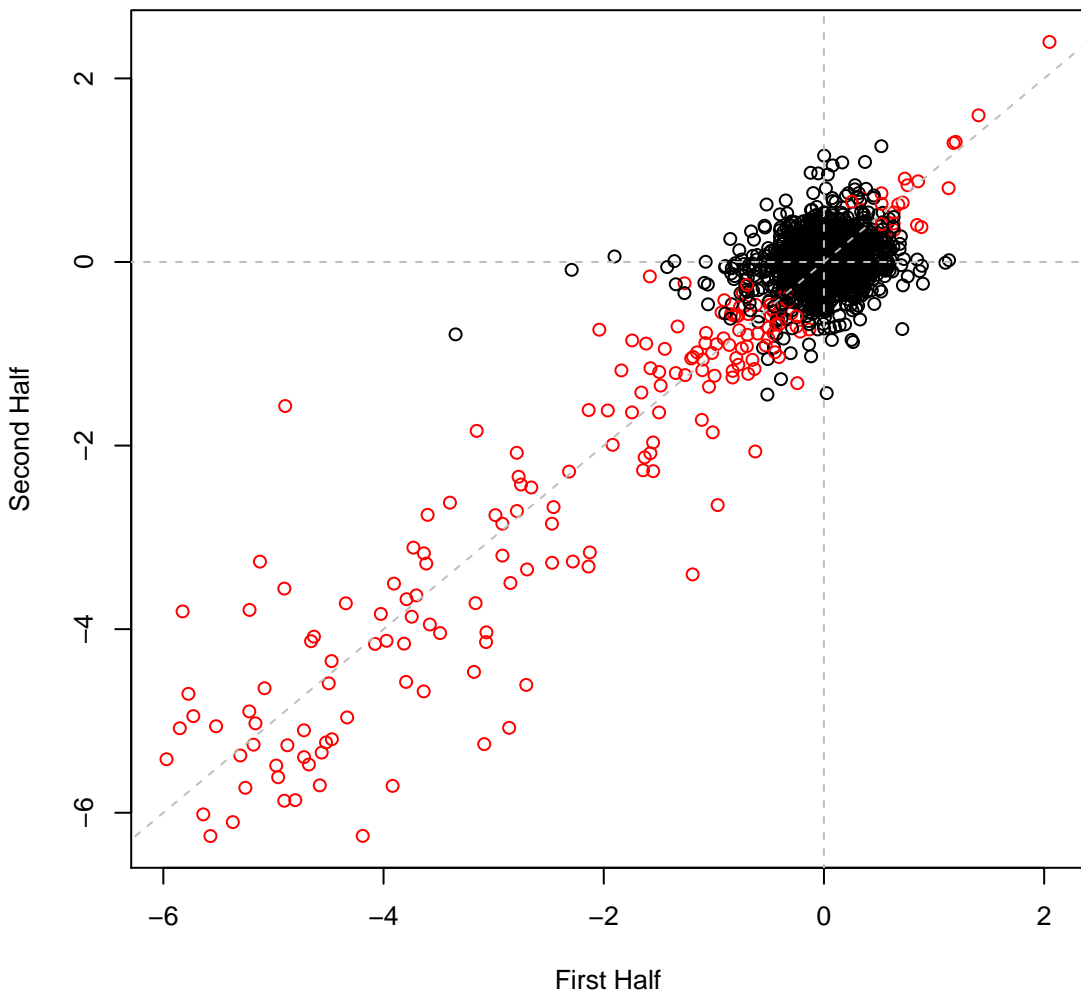


**Keio set1IT081 #81 (gMed=166 rho12=0.341)**  
**Glycine (N)**

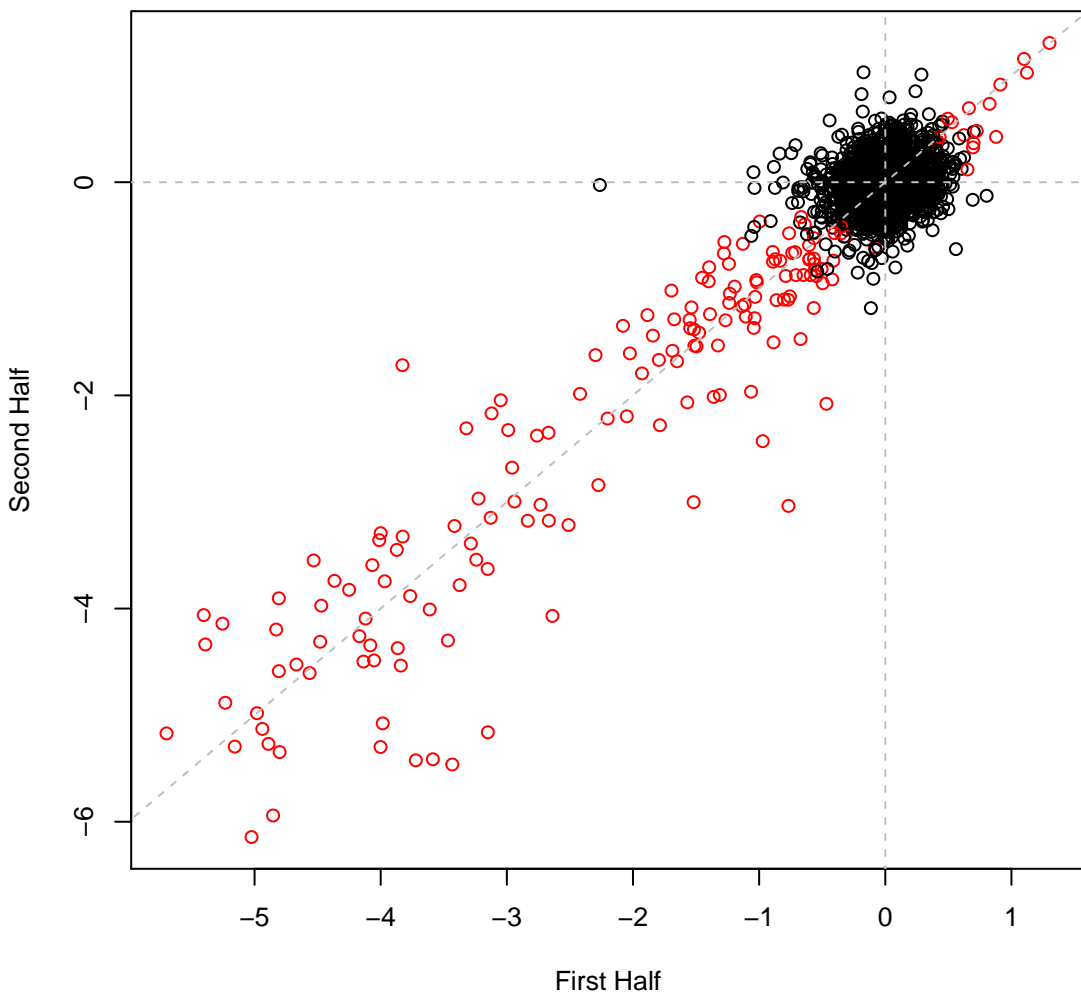




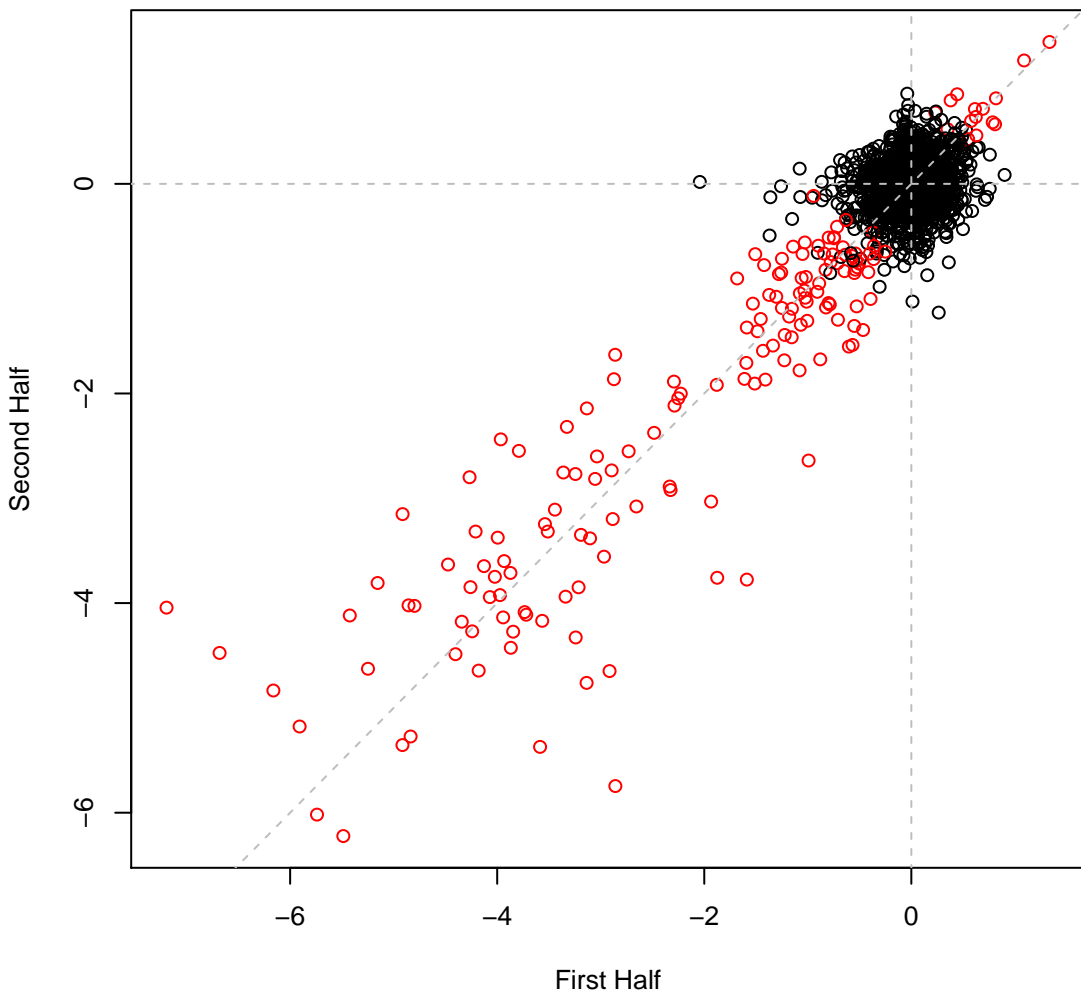
**Keio set1IT082 #82 (gMed=178 rho12=0.317)**  
**Glycine (N)**



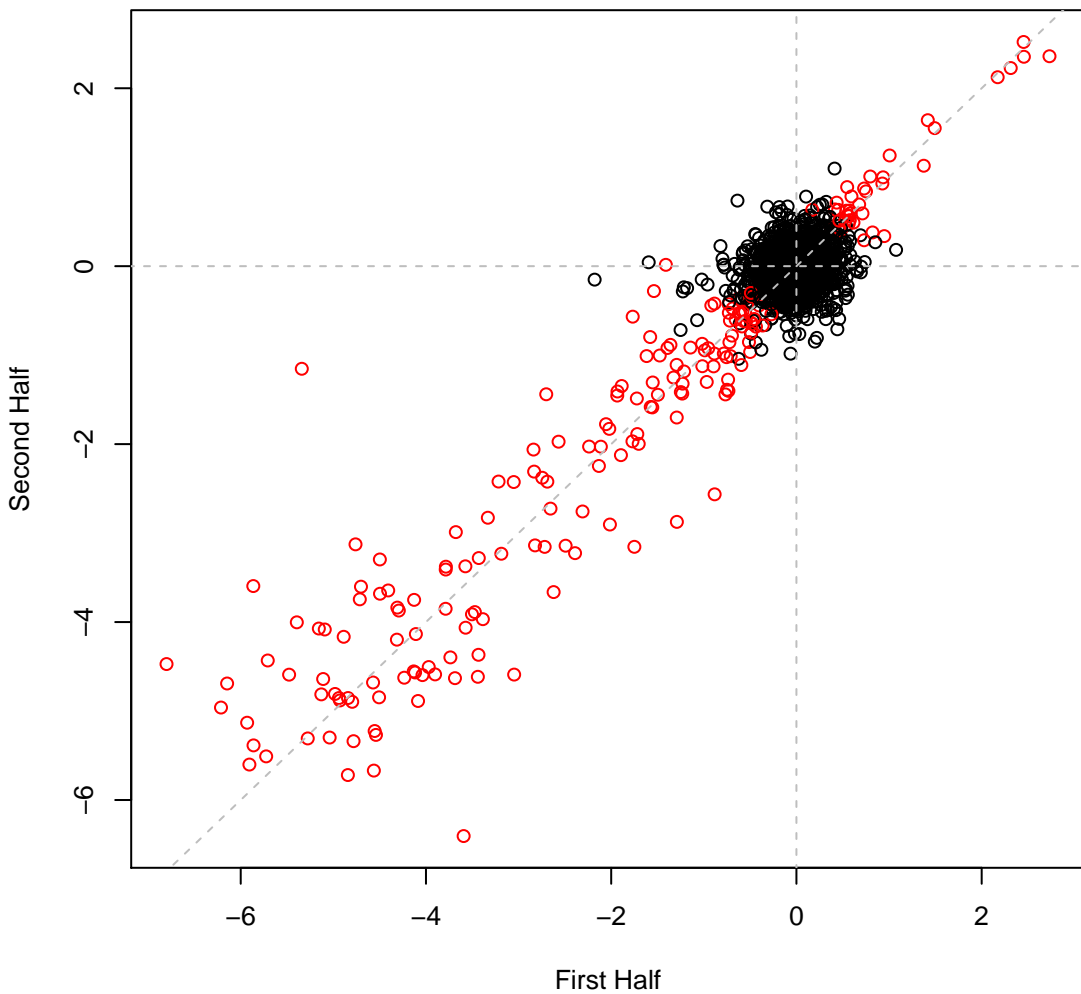
**Keio set1IT083 #83 (gMed=182 rho12=0.339)**  
**L-Alanine (N)**



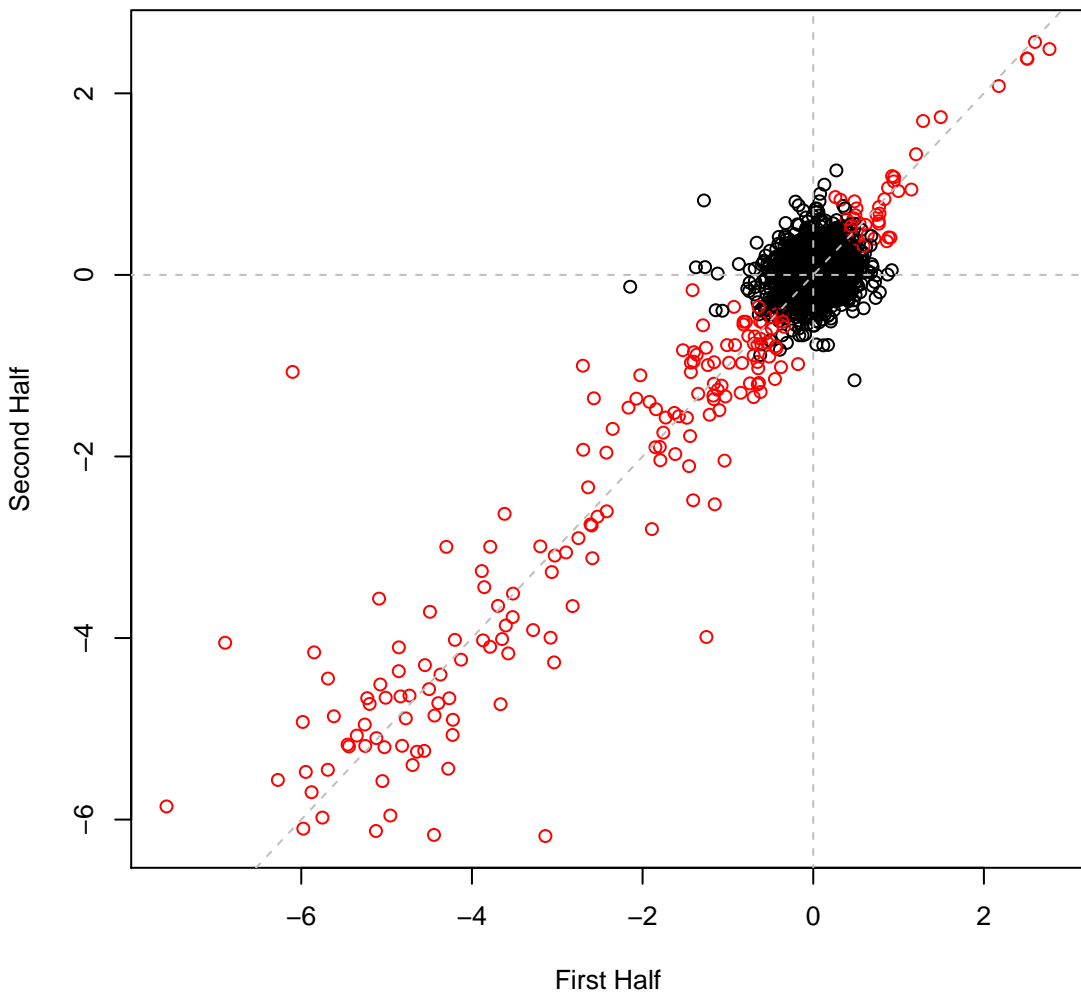
**Keio set1IT084 #84 (gMed=197 rho12=0.314)**  
**L-Alanine (N)**



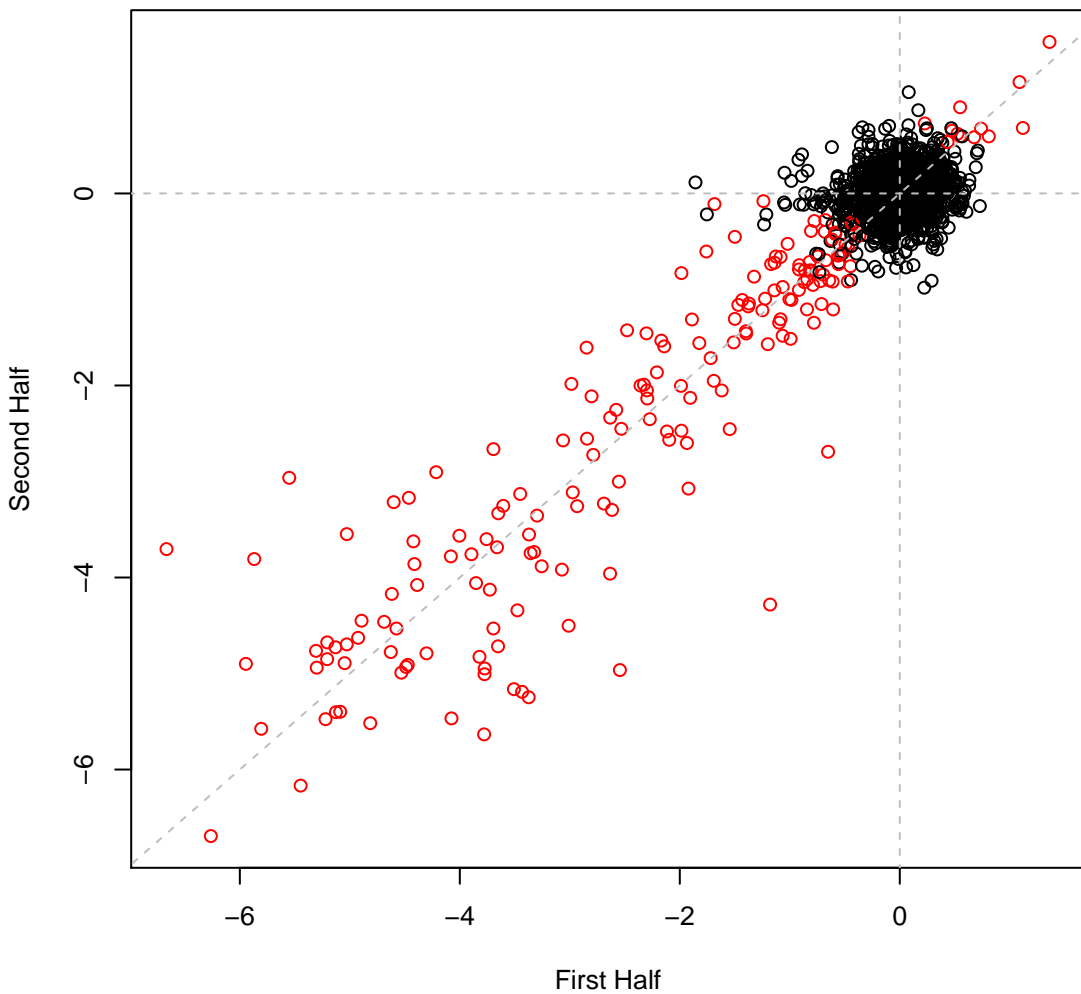
**Keio set1IT085 #85 (gMed=178 rho12=0.327)**  
**D-Serine (N)**



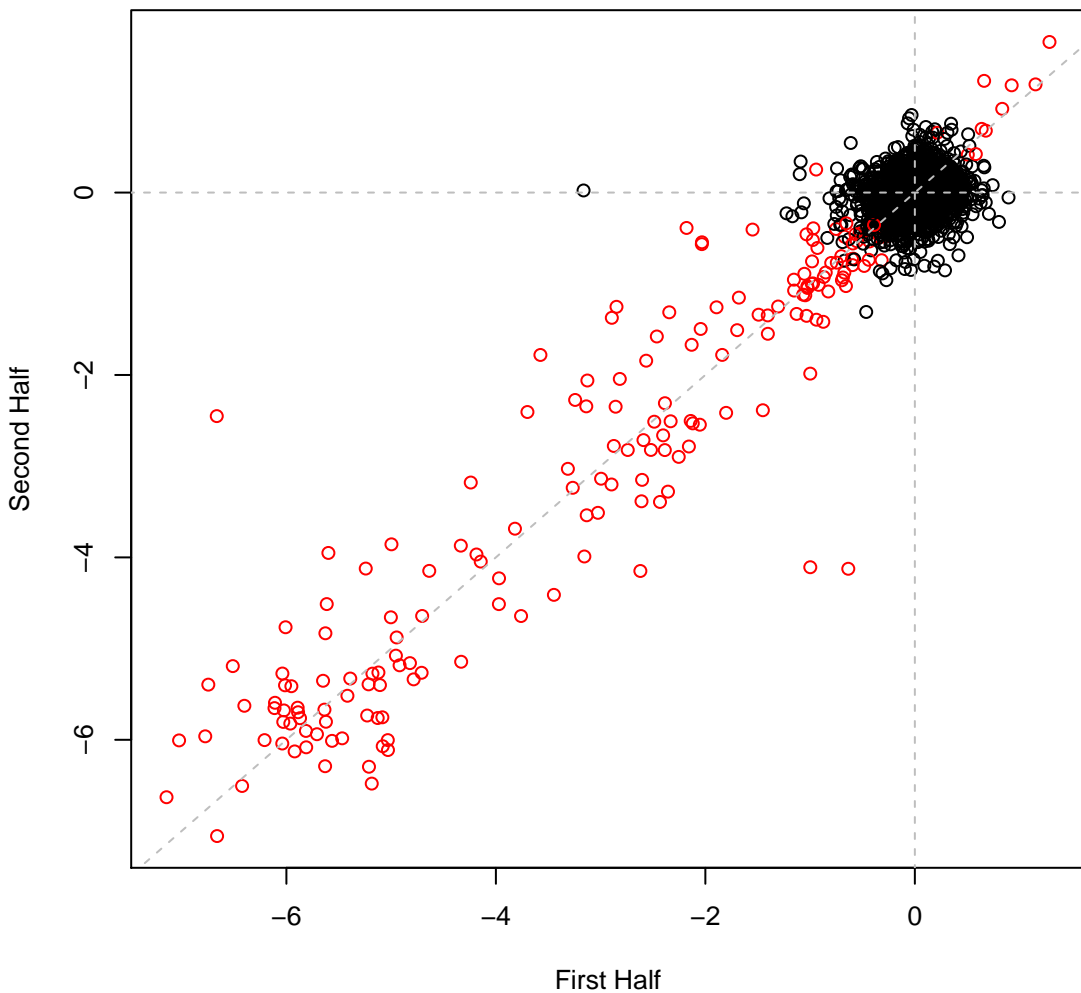
**Keio set1IT086 #86 (gMed=182 rho12=0.339)**  
**D-Serine (N)**



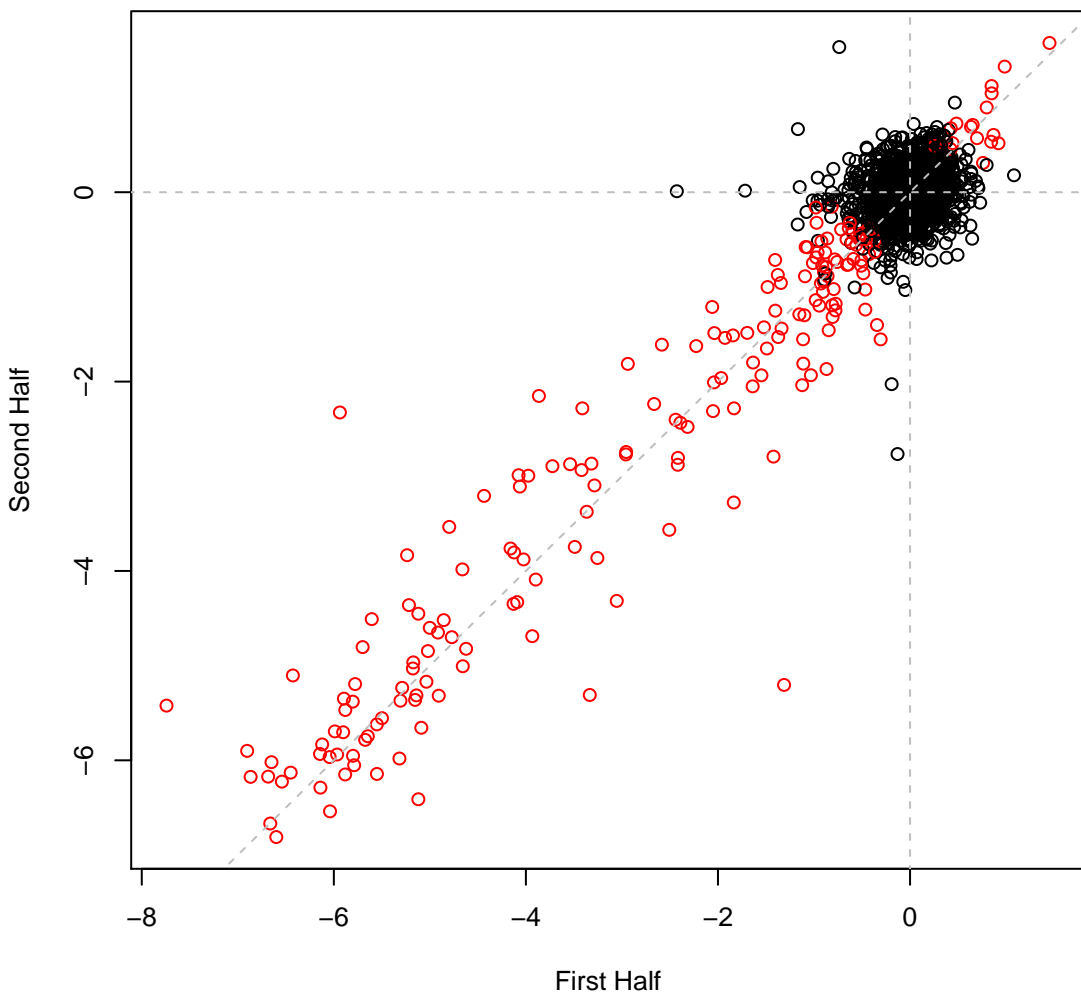
**Keio set1IT087 #87 (gMed=181 rho12=0.317)**  
**D-Alanine (N)**



**Keio set1IT088 #88 (gMed=164 rho12=0.339)**  
**D-Alanine (N)**

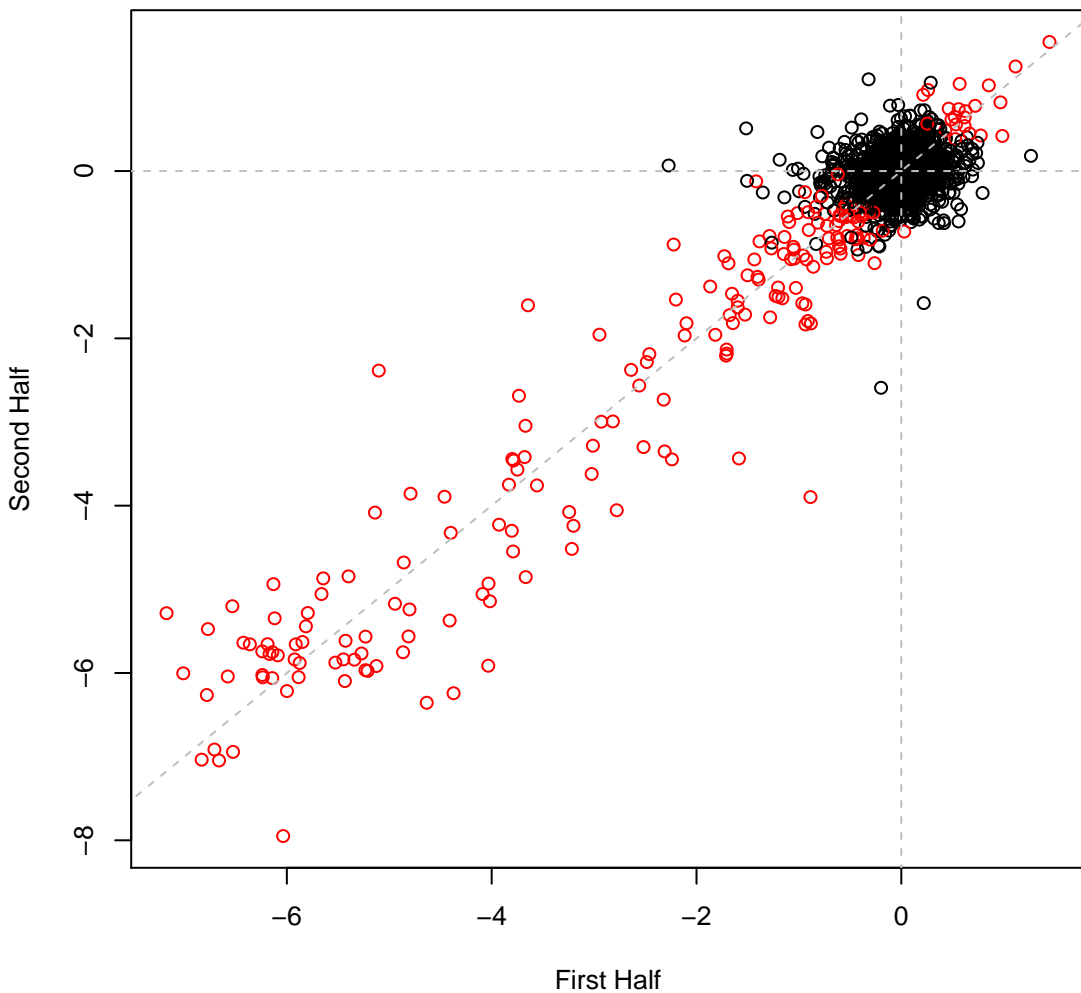


**Keio set1IT089 #89 (gMed=149 rho12=0.355)**  
**Gly-DL-Asp (N)**

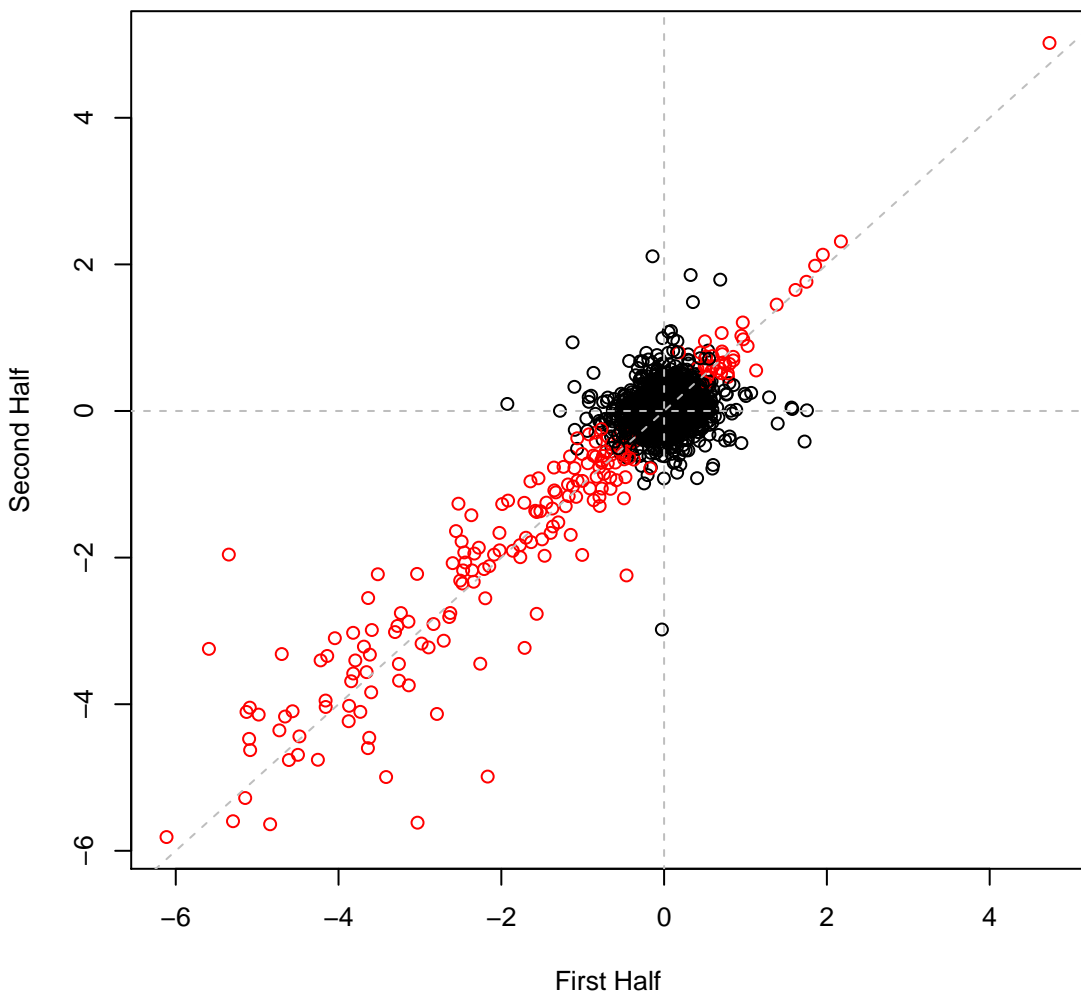




**Keio set1IT090 #90 (gMed=166 rho12=0.367)**  
**Gly-DL-Asp (N)**

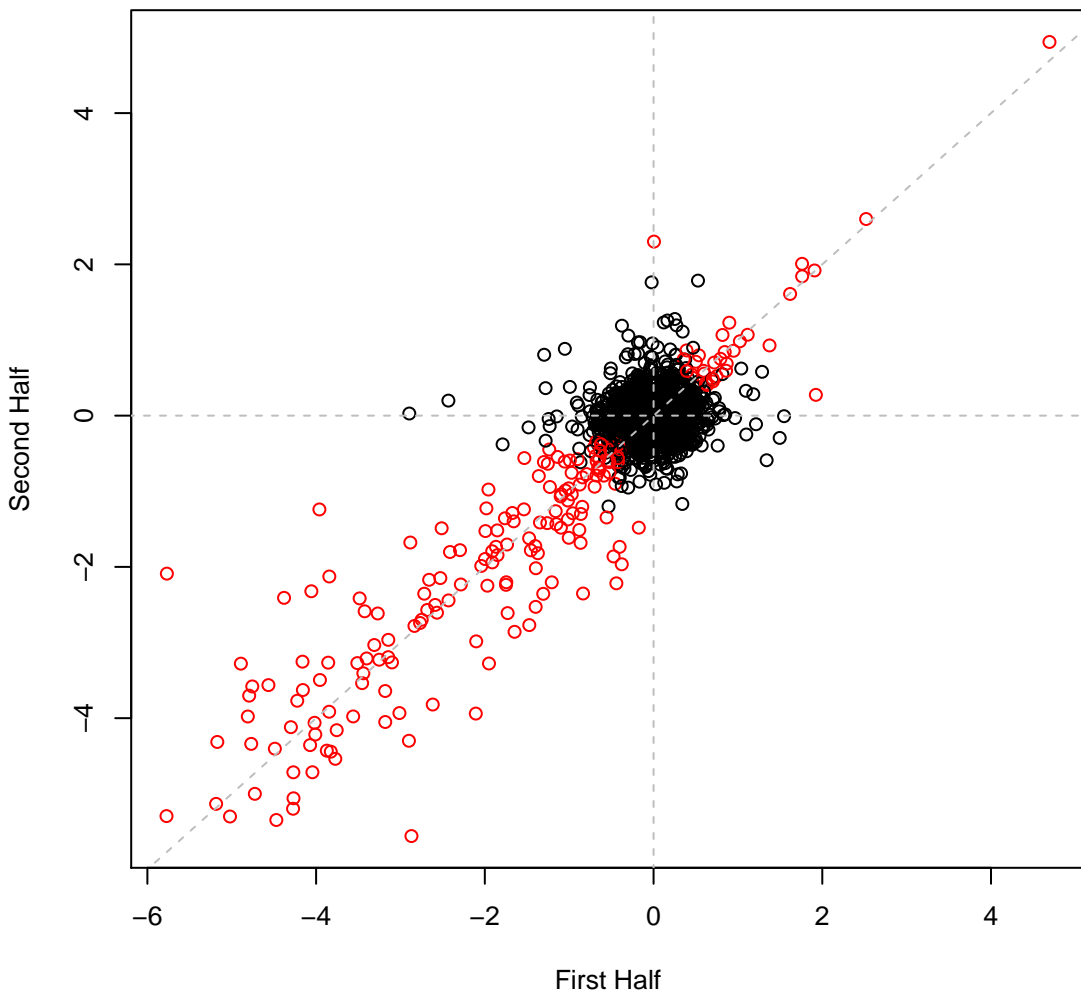


**Gly–Glu (N)**

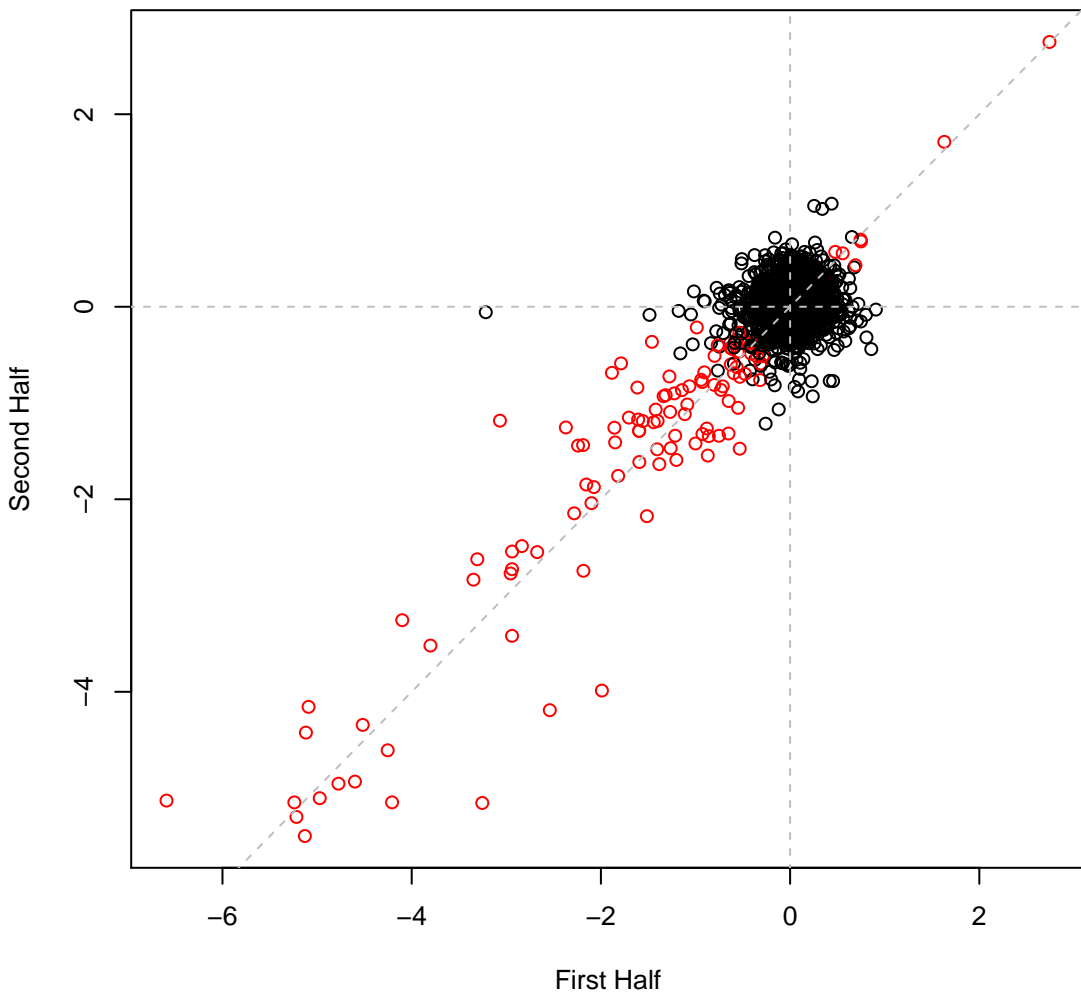


Keio set1IT092 #92 (gMed=176 rho12=0.296)

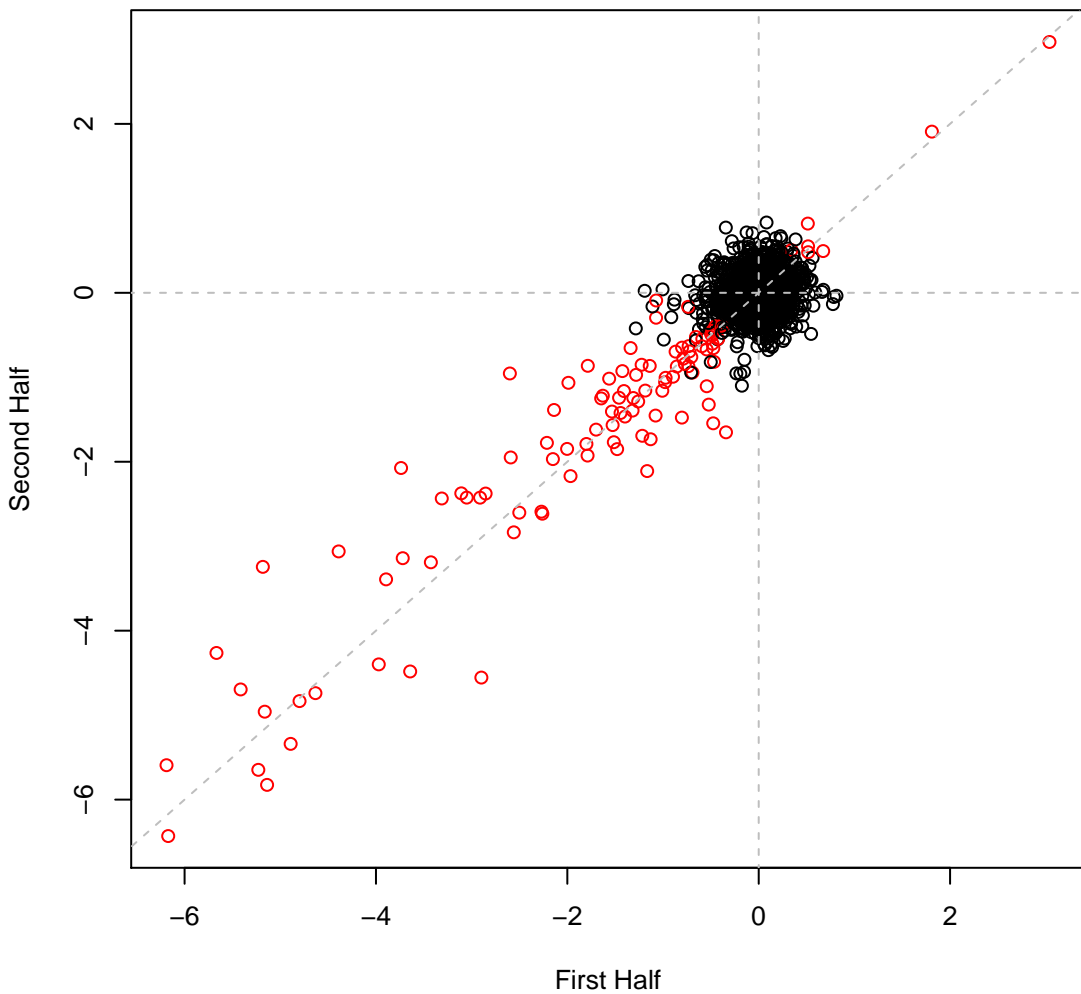
Gly-Glu (N)



**Keio set1IT093 #93 (gMed=167 rho12=0.241)**  
**casaminos (N)**

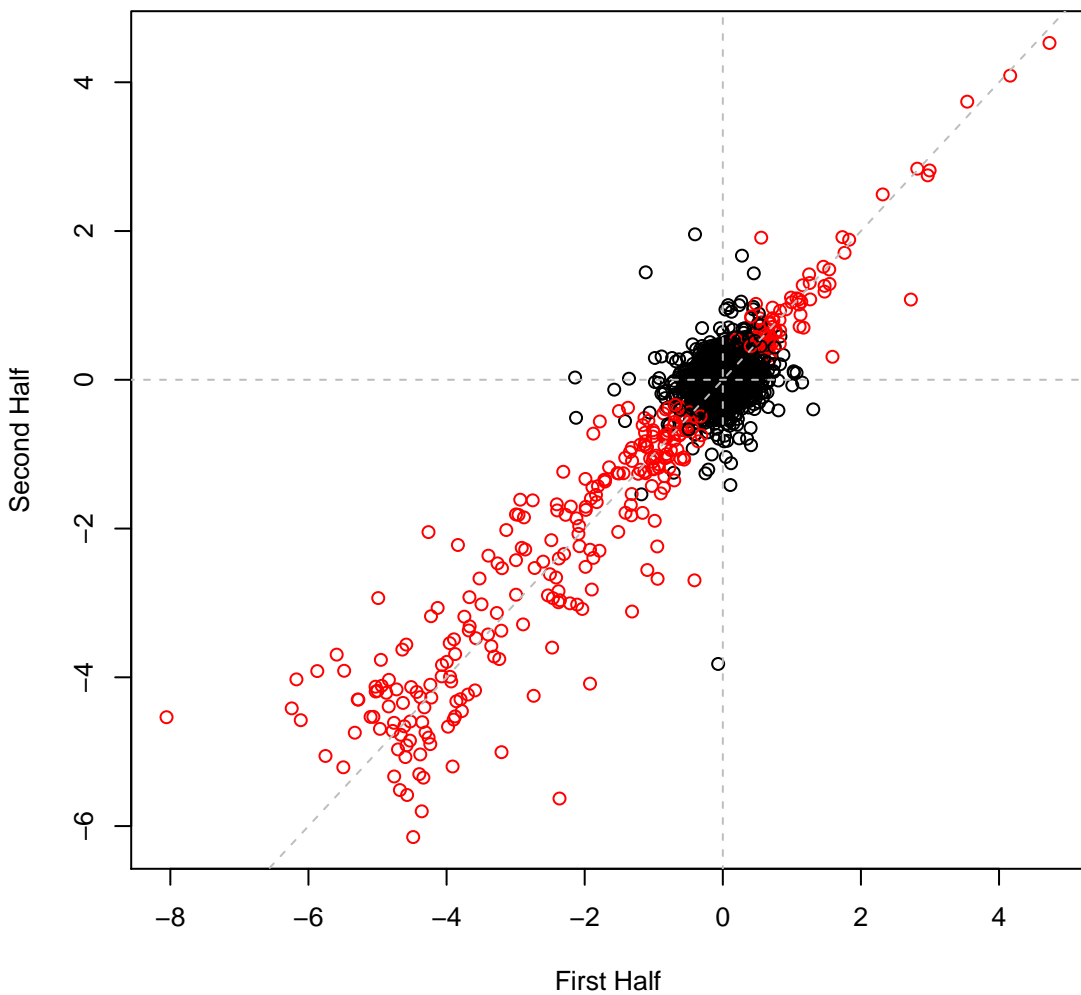


**Keio set1IT094 #94 (gMed=195 rho12=0.219)**  
**casaminos (N)**

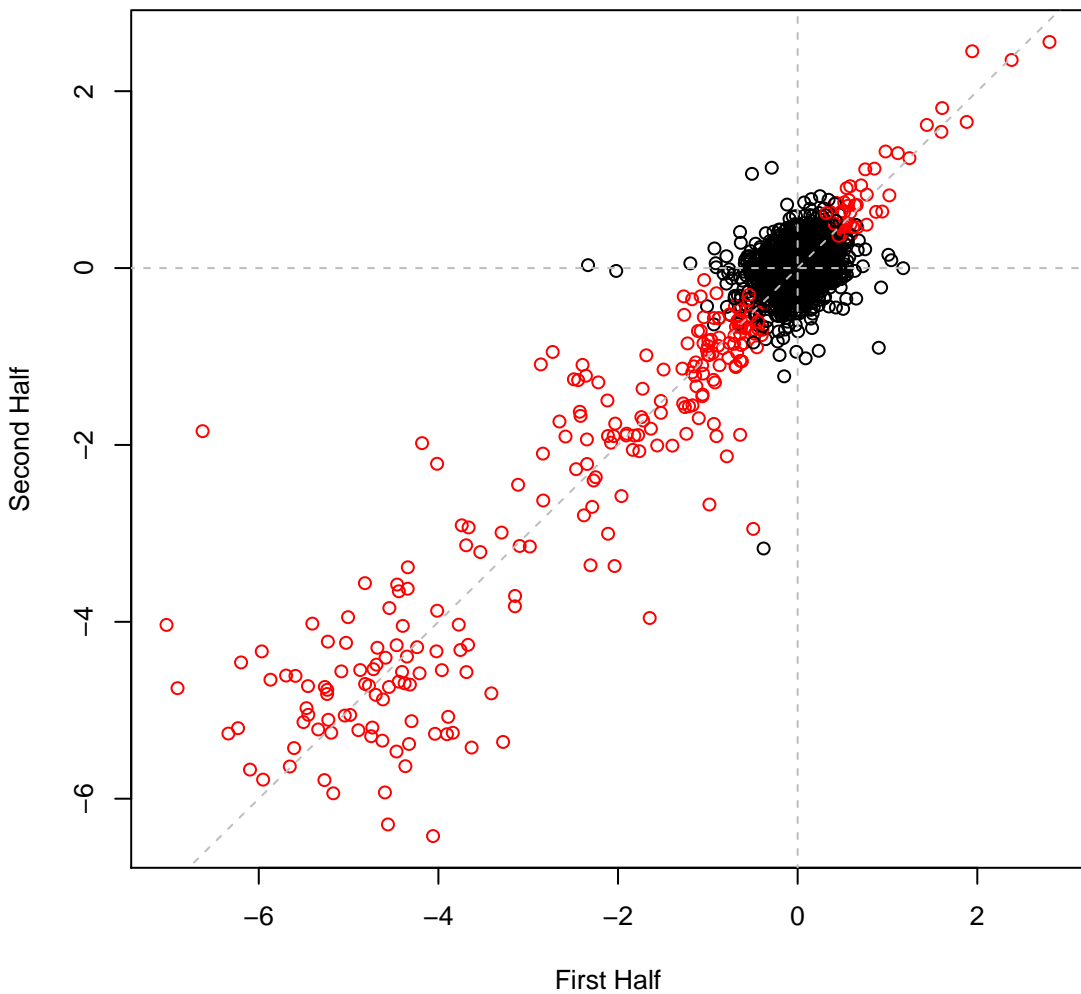


Keio set1IT095 #95 (gMed=197 rho12=0.473)

Putrescine (N)

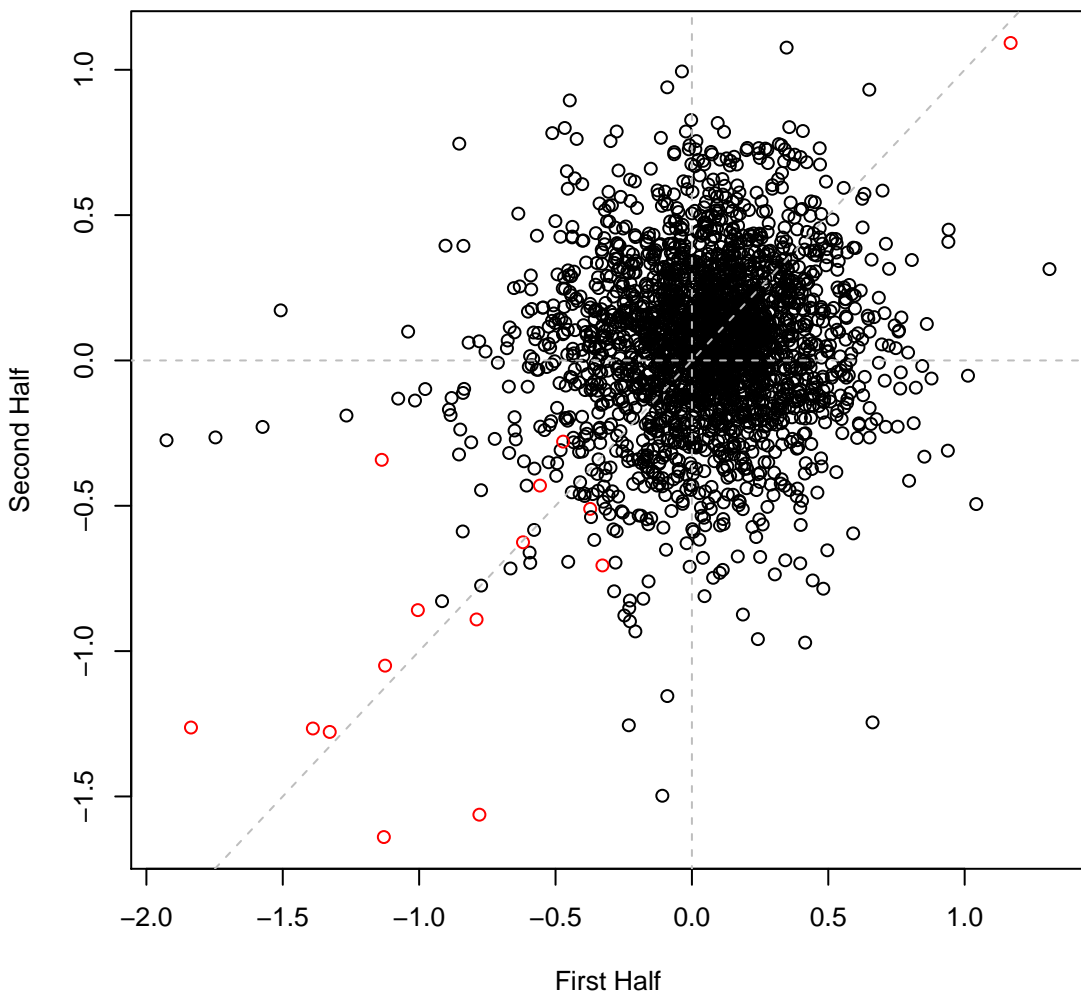


**Keio set1IT096 #96 (gMed=206 rho12=0.446)**  
**Putrescine (N)**



Keio set2IT024 #99 (gMed=123 rho12=0.084)

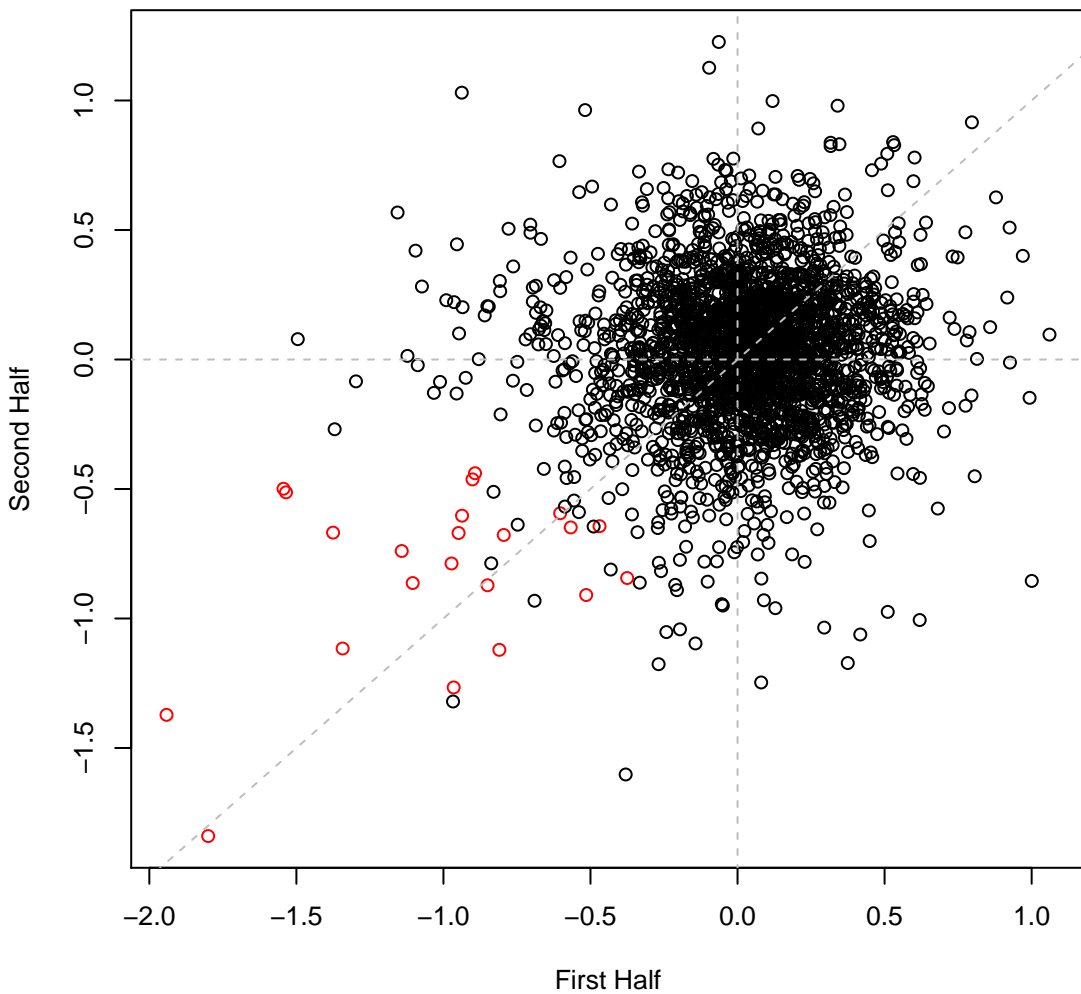
LB





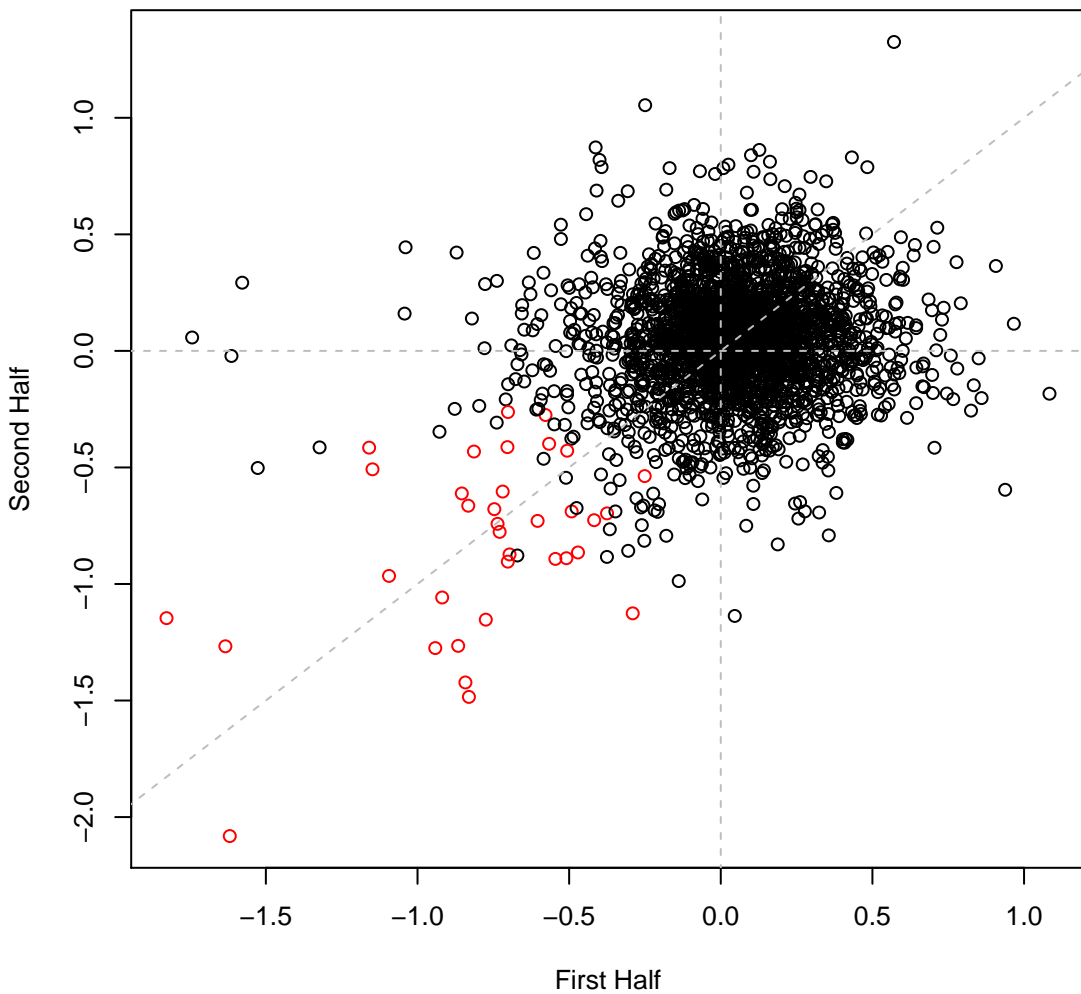
Keio set2IT034 #100 (gMed=125 rho12=0.060)

LB



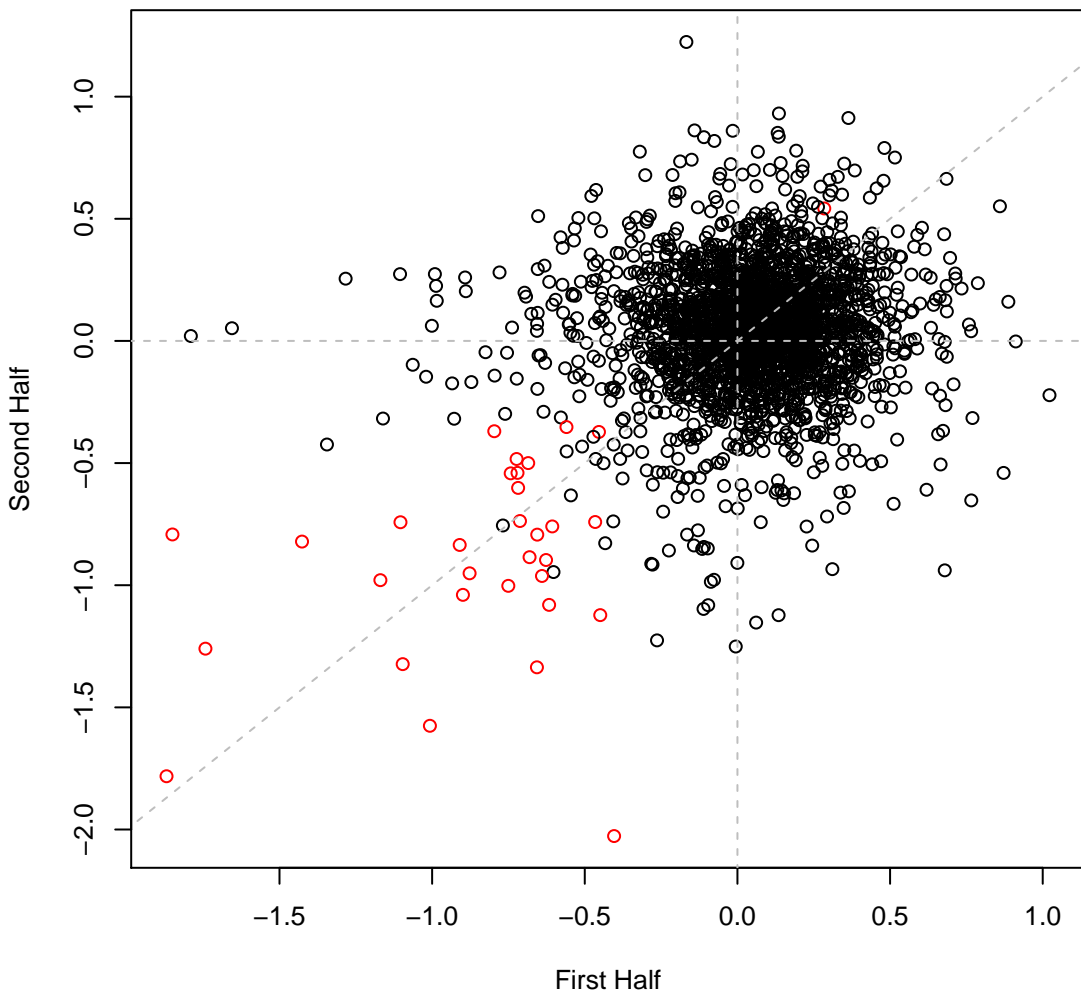
Keio set2IT045 #103 (gMed=127 rho12=0.098)

LB



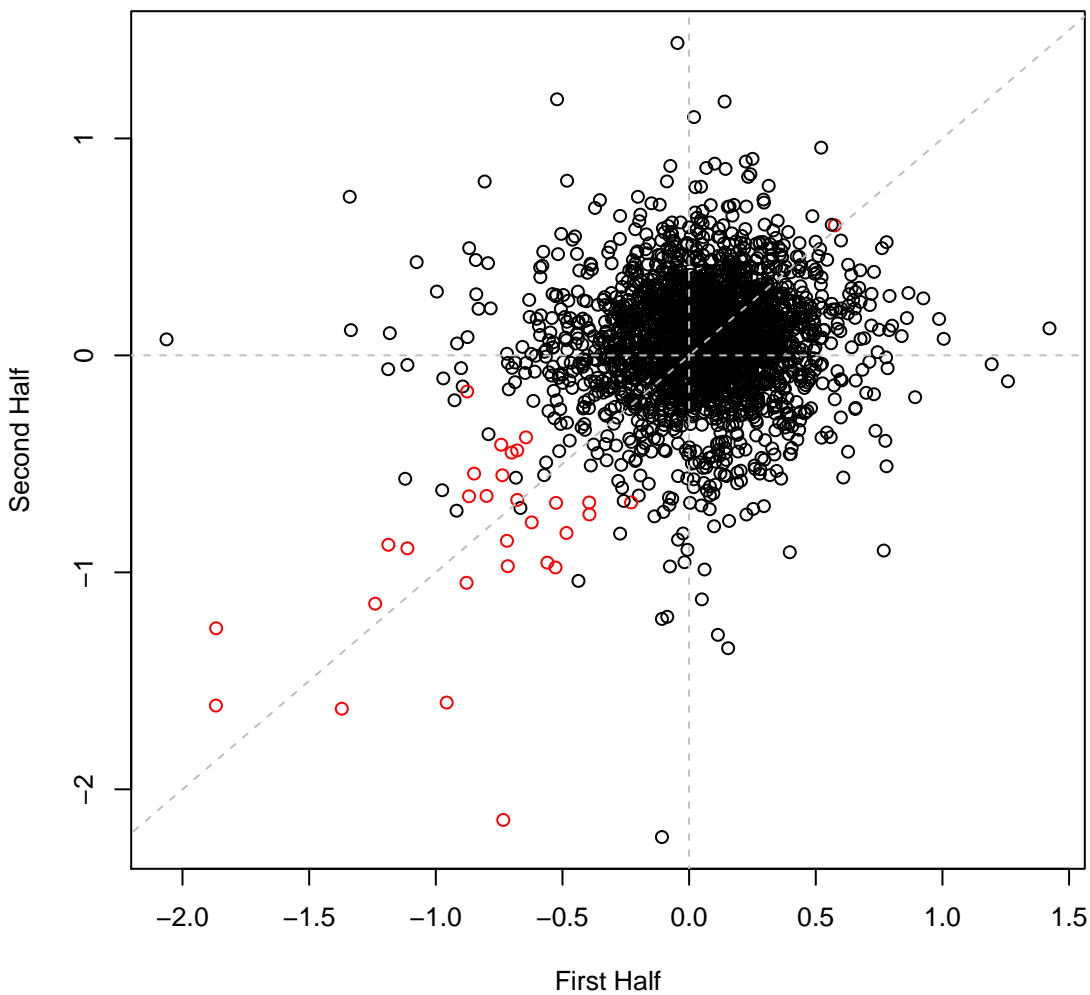
Keio set2IT055 #104 (gMed=127 rho12=0.086)

LB



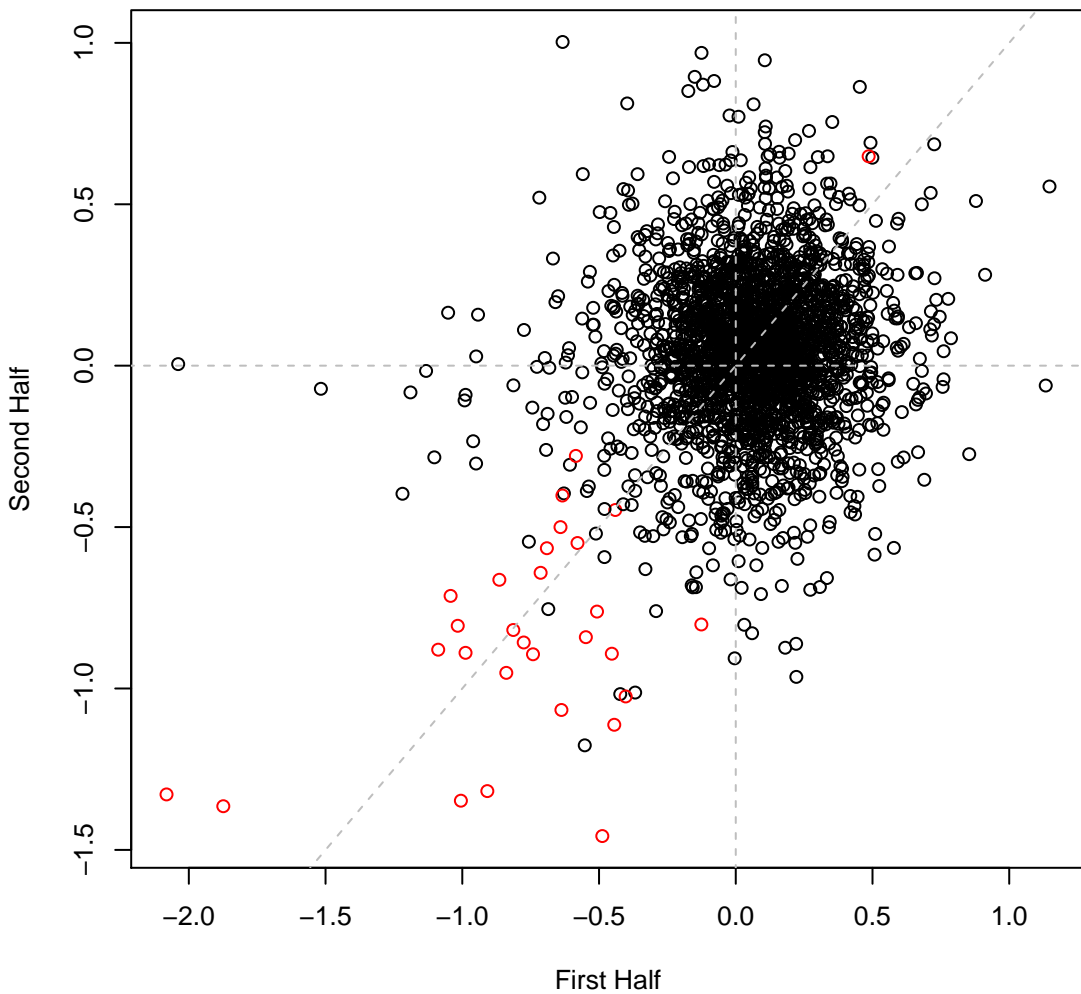
Keio set2IT069 #105 (gMed=110 rho12=0.102)

LB



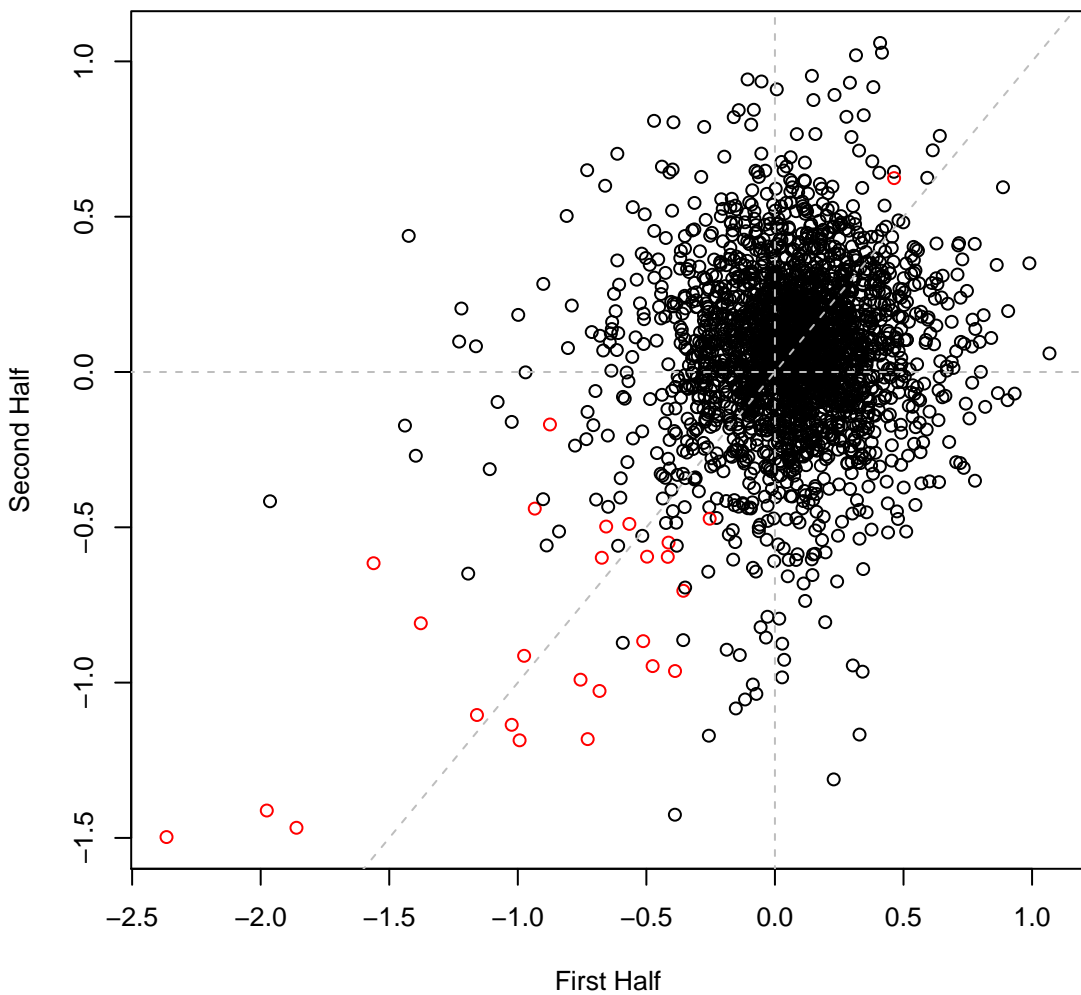
Keio set2IT079 #106 (gMed=146 rho12=0.073)

LB



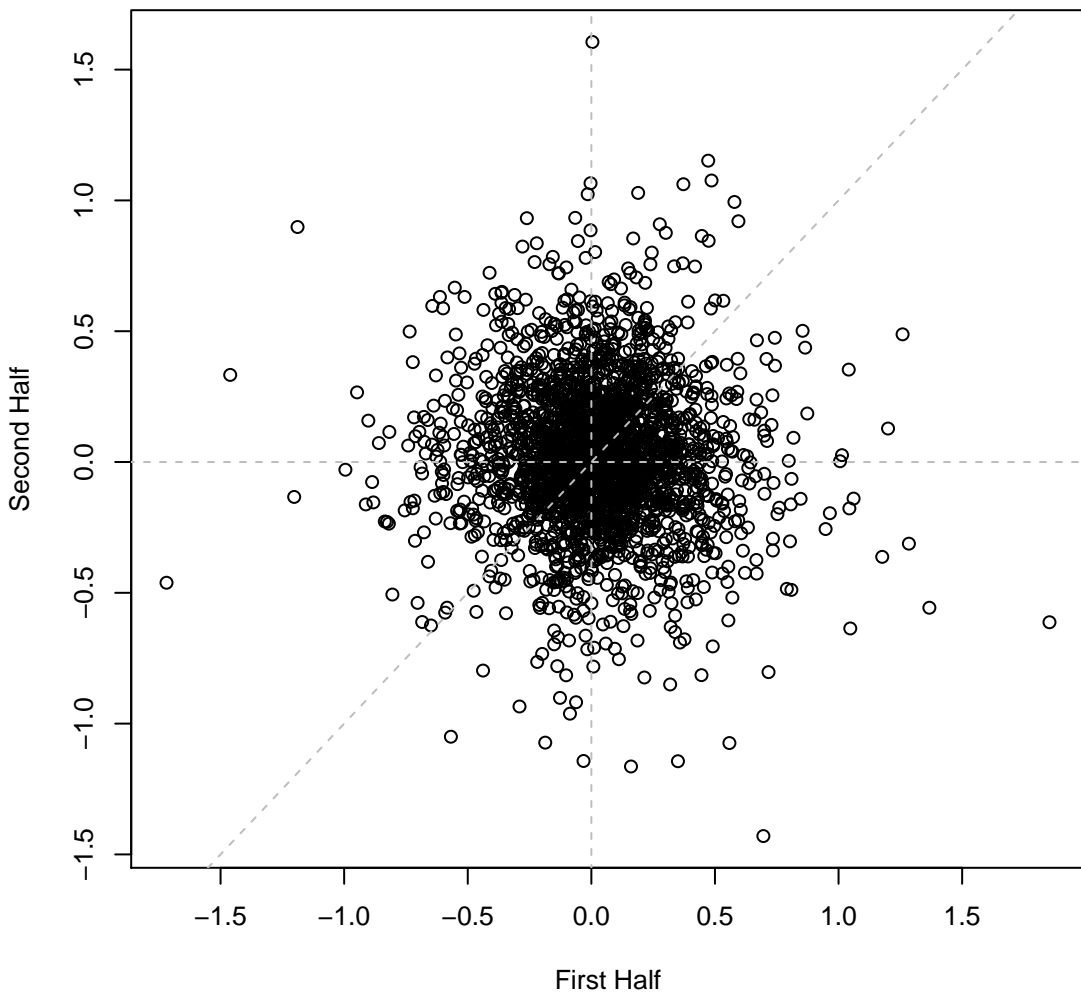
Keio set2IT090 #107 (gMed=104 rho12=0.082)

LB



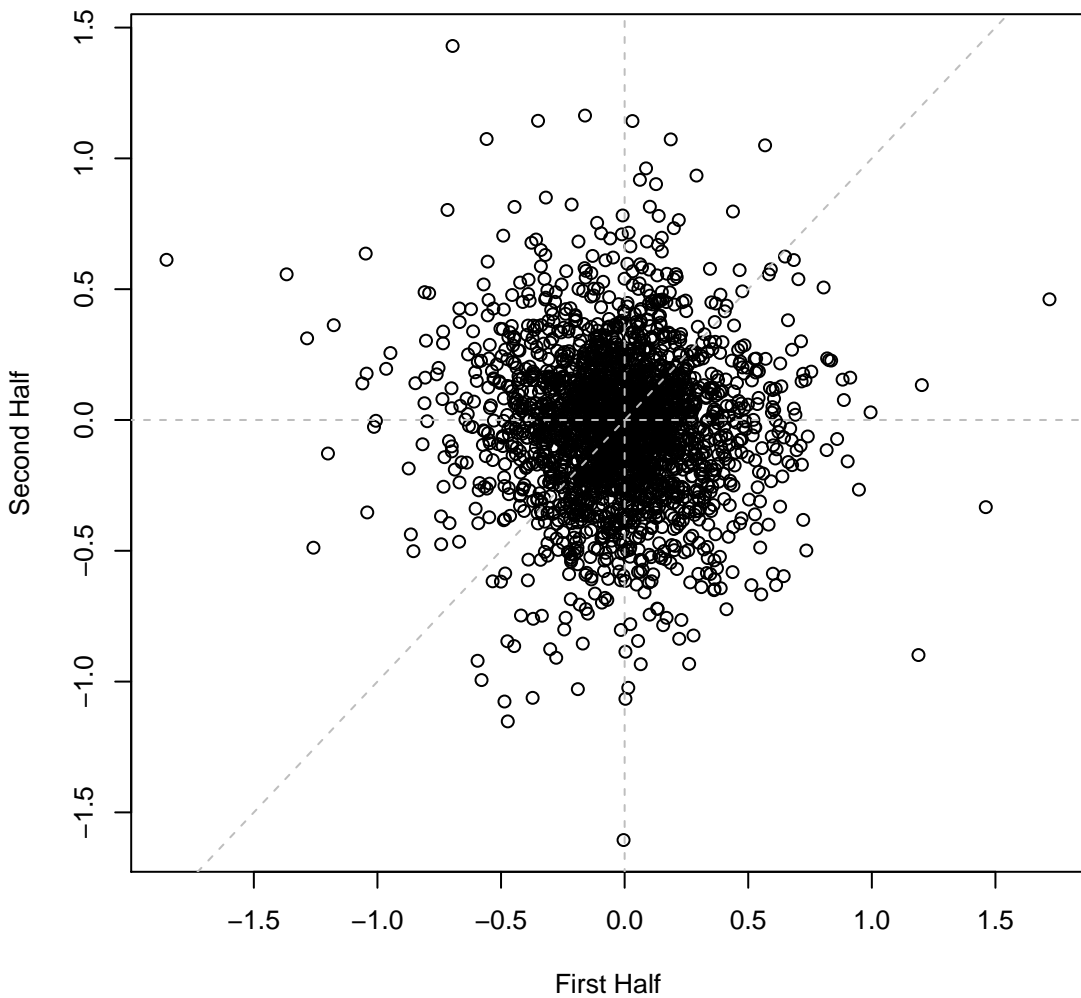
**Keio set2IT091 #108 (gMed=105 rho12=-0.025)**

**Time0**



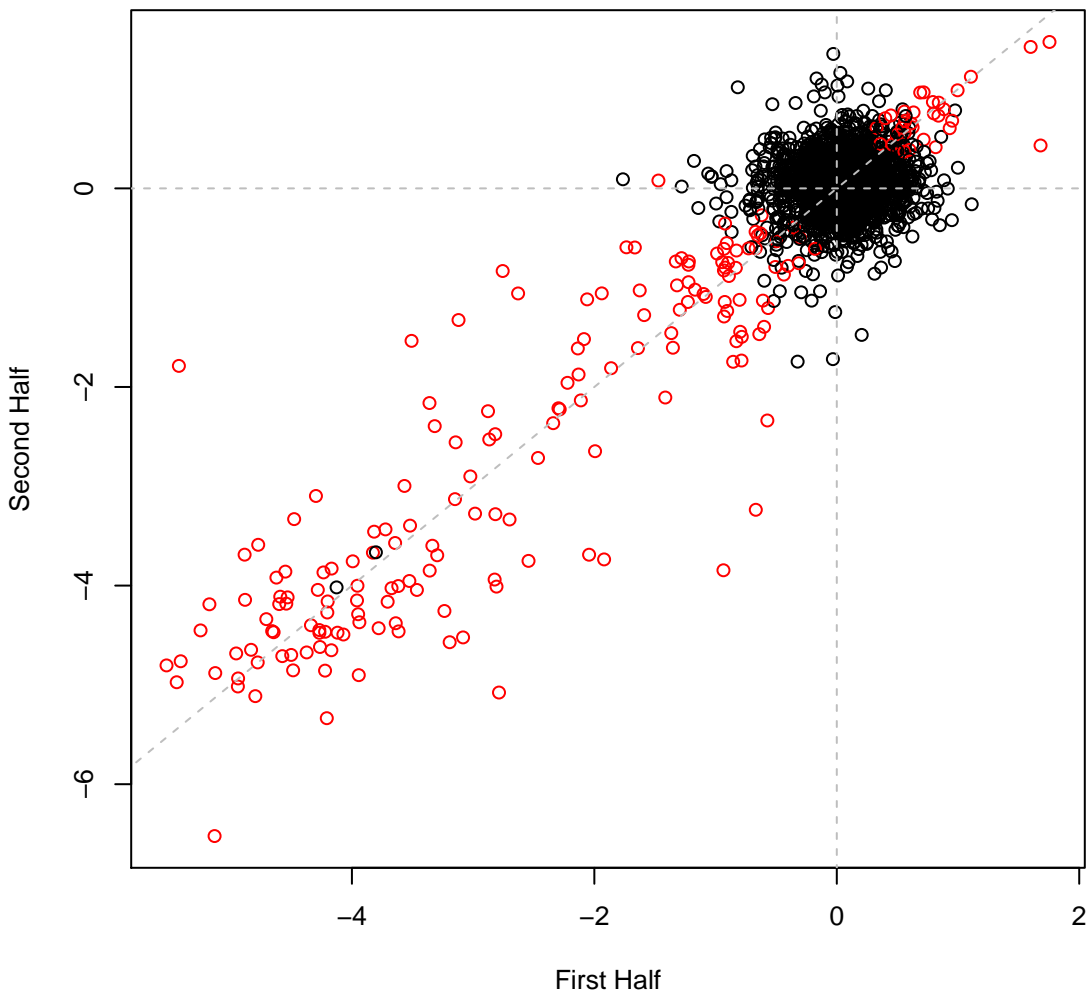
Keio set2IT092 #109 (gMed=99 rho12=-0.025)

Time0





**Keio set2IT095 #110 (gMed=110 rho12=0.289)**  
**D-Galacturonic Acid (C) M9**



**Keio set2IT096 #111 (gMed=112 rho12=0.238)**  
**D-Glucose (C) M9**

